INDIANA UNIVERSITY

BULLETIN 1998 2000

School of
HEALTH, PHYSICAL EDUCATION, AND RECREATION

Bloomington Campus

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School of
HEALTH, PHYSICAL EDUCATION, AND RECREATION

Bloomington Campus

Office of the Dean
School of Health, Physical Education, and Recreation
HPER 111
Bloomington, IN 47405-4801
(812) 855-1561

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INDIANA UNIVERSITY BULLETIN
OFFICIAL SERIES (USPS 262440)
ISSN 0888-5338

Periodicals postage paid at Bloomington, Indiana. Published twenty times a year (one time in January, February, March, July, October, November, and December; two times in June; three times in May; four times in August and September) by Indiana University from the Office of Publications, Poplars 721, 400 E. Seventh Street, Bloomington, IN 47405-3085. POSTMASTER: Send address changes to INDIANA UNIVERSITY BULLETIN MAIL ROOM, 300 N. Jordan, Bloomington, IN 47405-7700.

Vol. XCVI, No. 5 Bloomington, Indiana May 15, 1998

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Indiana University chose to print this bulletin with soy-based ink on recycled paper, both of which are more environmentally sound than traditional printing materials. You can make another sound choice. Please recycle this bulletin.

School of Health, Physical Education, and Recreation

Mission of the School

The mission of the School of Health, Physical Education, and Recreation is to foster scholarly inquiry, to prepare personnel for professional service at both entry and advanced levels, and to deliver services in the areas of health promotion and education, physical fitness, movement science, sport, and leisure studies and management. Comprehensive, balanced programs of teaching, research, and service provide the interactive experiences that will enable Indiana University graduates to meet the challenges presented by the ever-changing needs and demands of contemporary society.

A History of Leadership

Established in 1946 as the first School of Health, Physical Education, and Recreation in the United States, the school and its programs have grown to encompass a broad spectrum of academic interests and professional fields. As a result of the scholarship and service records of the faculty and the unparalleled professional contributions of the school's worldwide alumni, Indiana University has earned an enviable reputation for excellence both at home and abroad. As one of the most active and influential alumni groups in the United States, Indiana University graduates continue to provide a loyal support network for current programs and students.

Organization of the School

The school comprises the Department of Applied Health Science, the Department of Kinesiology, the Department of Recreation and Park Administration, and the Division of Recreational Sports. Close working relationships are maintained with other schools and departments on the campus, including the Medical Sciences Program, the School of Education, and the Department of Intercollegiate Athletics, as well as units on the Indianapolis campus such as the Indiana University Medical School and the National Institute for Fitness and Sport.

HPER on the World Wide Web

A comprehensive description of the degree programs, courses, faculty, research, institutes, laboratories, and other aspects of the School of Health, Physical Education, and Recreation is available on the World Wide Web at http://www.indiana.edu/~hper. Also accessible from the School of HPER home page is extensive information about Indiana University.

Curriculum and Degrees

Each of the three academic departments offers degrees ranging from the Bachelor of Science to the doctorate over a wide variety of majors and specializations. Separate degree programs have been designed to fit the needs of students who anticipate careers in research, education, public service, or private enterprise. Particular attention has been given to the development of a curricular structure that will meet the most stringent contemporary academic criteria while maintaining sufficient flexibility to accommodate individual requirements.

The degrees and majors offered within the School of Health, Physical Education, and Recreation are as follows:

Certificate in Hazard Control Technology
Associate in Science Degree in Hazard Control Technology
Bachelor of Science in Applied Health Science
- Dietetics
- Human Development/Family Studies
- Health Education—Secondary Teacher Preparation
- Nutrition Science
- Occupational Safety
- Public Health Education

Bachelor of Science in Kinesiology
- Athletic Training
- Athletic Training—Teacher Preparation
- Exercise Science
- Sport Communication—Broadcast
- Sport Communication—Print
- Sport Marketing and Management
- Teacher Preparation—All Grade

Bachelor of Science in Recreation
- Therapeutic Recreation
- Outdoor Recreation and Resource Management
- Park and Recreation Management
- Recreational Sport Management
- Tourism Management

Master of Public Health
Master of Science in Applied Health Science
- Health Promotion
- Human Development/Family Studies
- Nutrition Science
- Safety Management
- School Health Education

Master of Science in Kinesiology
- Adapted Physical Education
- Administration
- Applied Sport Science
- Athletic Administration/Sport Management
- Athletic Training
- Biomechanics
- Clinical Exercise Physiology
- Exercise Physiology
- Motor Development
- Motor Learning/Control
- Social Science of Sport

Master of Science in Recreation
- Administration
- Outdoor Recreation
- Recreational Sports Administration
- Therapeutic Recreation

Director of Health and Safety
Director of Physical Education
Director of Recreation
Doctor of Health and Safety
Doctor of Physical Education
Doctor of Recreation
Doctor of Philosophy (Ph.D.)
- Health Behavior
- Human Performance
- Leisure Behavior

The Ph.D. is administered by the School of Health, Physical Education, and Recreation and awarded through the University Graduate School.

The following School of Health, Physical Education, and Recreation subject areas are recognized as nonteaching minors at the baccalaureate level:
- Dietetics/Nutrition Science
- Human Development/Family Studies
- Public Health Education
- Kinesiology
- Recreation and Park Administration

Teaching minors are offered in
- Health and Safety
- Kinesiology

HPER Library

The HPER Library, a branch of the Indiana University Library, collects materials supporting the instruction, study, and research needs of the faculty and students of the School of Health, Physical Education, and Recreation. This busy library located within the HPER Building provides easy and convenient access to electronic (CD-ROM and online) resources, references, abstracts, and full-text articles on diverse topics. More information regarding the HPER Library, including access to the collection of holdings is available on the World Wide Web at http://www.indiana.edu/~libhper/.

HPER Alumni Association

The School of HPER maintains contact with alumni through the HPER Alumni Association, a constituent society within the parent Indiana University Alumni Association. The HPER Alumni Association publishes the school's alumni magazine *HPER Dimensions*, mailed annually to more than 14,000 HPER alumni located in all 50 states and 41 foreign countries. Through this magazine alumni, faculty, and students are able to maintain contact as well as to keep abreast of changes in the school. The HPER Alumni Association also sponsors receptions at the annual conferences of the National Recreation and Park Association; American School Health Association; American Alliance for Health, Physical Education, Recreation, and Dance; and, the National Intramural and Recreational Sports Association. These receptions offer alumni an opportunity to renew old friendships, meet new friends, and visit with faculty. In addition, the HPER Alumni Association hosts a tailgate event each year at an Indiana University football game, as well as a December and May graduation send-off luncheon for graduates and their families. The HPER Alumni Association is governed by an elected 16-member board of directors, which meets quarterly.

Assessment of Student Learning

In preparing students to face important individual and societal wellness challenges and demands of tomorrow, the faculty of the School of Health, Physical Education, and Recreation strive to provide the highest quality undergraduate and graduate academic programs available in the nation. Assessment of student success is a formalized, ongoing, dynamic process that demonstrates accountability in the achievement of the School's academic mission. The assessment process helps students and professors judge the mastery of the learning outcomes that are specified and annually reviewed in the school's assessment plan for each HPER academic program. In addition to knowledge of content, other outcomes assessed by faculty involve the student's skills in oral and written communication, analysis, critical thinking, judgment, problem solving, decision making, valuing, interaction, and leadership. Faculty value assessment as a basis for improvement of the curriculum, courses in the majors, and enhancement of the quality of teaching. The central test of teaching is learning.

Student Services within the School

Advising

Prior to registering each semester the student must meet with an assigned academic advisor for ongoing assistance in academic and career planning. During this meeting the registration approval form must be signed by the academic advisor. The student may pick up the registration ticket in HPER 115, after submitting this approved form. Students are responsible for tracking their own academic progress.

Placement

Each academic department actively gathers placement opportunities and information for those students in their fields. Career planning and placement opportunities are also available through the school's student organizations. Contact your major department office or your academic advisor for more details.

Student Organizations

Students are encouraged to participate in the student organizations of the School of HPER. For more information on organizations, membership eligibility and activities, contact the department or division in which the organization is listed. Some of these organizations are:

School of Health, Physical Education, and Recreation Undergraduate Student Advisory Council

School of Health, Physical Education, and Recreation Graduate Student Advisory Council

These school councils are composed of two representatives from each academic department, appointed annually by the department to discuss issues of interest to their student constituents within the school. They also serve in an advisory capacity to the dean.

Applied Health Science

Eta Sigma Gamma—Nu Chapter (the national health science honorary)
Indiana University Dietetics and Nutrition Club
Indiana University Student Council on Family Relationships

Kinesiology

Athletic Training Student Group
Sport Marketing and Management Club
Teacher Preparation Club

Recreation and Park Administration

Undergraduate Recreation Society
Graduate Recreation Society

Recreational Sports

Club sports provide recreational opportunities, with over 40 clubs from which to choose, ranging from aikido to wrestling. Everyone, regardless of ability, is welcome to participate. The Club Sport Federation (CSF) is a student group that governs all club sports. Each club has a CSF representative who makes proposals and votes on club sports policies and procedures. This is an opportunity to gain valuable leadership experience.

School of HPER Awards and Scholarships

A variety of awards and scholarships are available for admitted undergraduate and graduate students in the School of HPER. Eligibility criteria for these awards vary. Some of these considerations include demonstration of academic excellence, leadership in extracurricular activities, or financial need. Students are encouraged to discuss these award and scholarship possibilities with their academic advisor. Award amounts vary, based on funding availability. For more information, contact the Recorder's office, 812-855-1561.

School of HPER Awards

W. W. Patty HPER Alumni Scholarship
Student Research and Travel Grants-In-Aid (Undergraduate and Graduate)

Kinesiology Awards

Harry Dippold Scholarship
"Spike" Dixon Athletic Training Award
Leroy "Bud" Getchell Scholarship
Curtis R. Simic Scholarship
Edna F. Munro Physical Education Scholarship
NASPE Outstanding Physical Education Major of the Year Award
Phillips-Summers Award and Loan Fund
Kate C. Remley Memorial Scholarship
Swift-Russell Scholarship

Applied Health Science Awards

American Dietetic Association Scholarship
American Industrial Hygiene Association Indiana Section Award
American School Health Association-Committee on Minority Affairs
American School Health Association Scholarship
Opal G. Conrad Scholarship
Crane Fund for Widows and Children
Ruth Mary Griswold Graduate Scholarship
Griswold Undergraduate Scholarship
Home Economics Guild of Indianapolis Award
Indiana Dietetic Association Scholarship
Donald J. Ludwig Scholarship
Northeastern Illinois Chapter American Society of Safety Engineers Award
Pantaleoni Scholarship

J. K. Rash Scholarship
Margaret Seberger Scholarship
Lute Trout Fellowship/Mary Herbernstreit Award

Recreation and Park Administration Awards

Distinguished Undergraduate Award
Eppley Scholar Award
Walter Jamieson Memorial Scholarship
John Andrew Jarboe Memorial Scholarship
Junior Recreation Scholarship Award
Thomas J. Rillo Outdoor Recreation Consortium Scholarship
John and Nancy Ross Brookstone Award
L. B. Sharp Award
Lebert H. Weir Award

Indiana Park and Recreation Association Grants and Scholarships

Leisure Studies Grant
Scholarships for Children of Indiana Park and Recreation Society Members

Division of Recreational Sports Awards

Hurst-Schlafer Scholarship
William H. Lindley Jr. Award
Otto E. Ryser Gymnastics Award
Rubert Stumpner Outstanding Senior Award
Ora A. Wildermuth Recreational Sports Scholarship

Units in the School of Health, Physical Education, and Recreation

Department of Applied Health Science

Faculty

Chairperson Professor Crowe

Assistant Chairperson Chancellor's Professor Torabi

Professors Engs, Torabi, Yarber

Associate Professors Billingham, Birch, Ellis, Gilbert, Lindeman, Shier

Assistant Professors Daniels, Fly, Fravel, Piercy, Russell, Tai-Seale

Associate Professor, part-time Bailey

Adjunct Lecturers Hall, Mikels

Applied Health Science Web Page A comprehensive description of applied health science degree programs, courses, faculty, research, institutes, and laboratories is accessible on the World Wide Web at URL: http://www.indiana.edu/~aphs/.

Description of the Program

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 study in school and college health education, public health education, safety science and safety management, human development and family studies, nutrition science, and dietetics. 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.

Areas of Specialization

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. Six areas of specialization are available to the student.

School and college health education is concerned with programs that promote the health of children and young adults in schools and colleges. This area traditionally includes courses in alcohol, tobacco, and other drug abuse; emergency care; human sexuality; consumerism; and other related areas. At the undergraduate level, students can study health teaching in a joint program with the School of Education.

Public health education promotes the health of the general public. Students acquire the skills to develop, implement, and evaluate health education and promotion programs in community, occupational, and clinical settings. In 1997 the Master of Public Health program received accreditation in Public Health Education from the Council on Education for Public Health.

Occupational safety (undergraduates) and **safety management** (graduates) develop the skills and professional competencies for safety and risk management of both public and private organizations.

Human development/family studies examines growth and development throughout the lifespan. Family studies examines more specifically roles within the family, and how the members of diverse kinds of families interact with one another and with greater society. A cumulative grade point average (GPA) of 2.5 is required for both entrance and graduation in these areas.

Nutrition science integrates the basic and applied principles of nutrition and related sciences such as anatomy, physiology, biochemistry, and medicine. Students learn to apply nutrition to health promotion. Courses of study include human nutrition, nutritional biochemistry, diet and disease, and food science. An entrance cumulative GPA of 2.5 is required.

Dietetics studies the role of nutrition in health promotion and disease prevention and treatment in clinical and community settings. Students learn to apply the principles of nutrition, food science, and food management in advancing health promotion. The curriculum meets American Dietetic Association (ADA) Didactic Program in Dietetics approval. An entrance cumulative GPA of 2.5 is required.

Degree Programs

Degree programs currently available in the Department of Applied Health Science include:

Certificate in Hazard Control Technology
Associate of Science (A.S.) in Hazard Control Technology
Bachelor of Science (B.S.) with options in
- Dietetics
- Health Education—Secondary Teacher Preparation
- Human Development/Family Studies
- Nutrition Science

Occupational Safety
Public Health Education
Minors
Dietetics/Nutrition Science (15 cr.)
Health and Safety—Teaching (24 cr.)
Human Development/Family Studies (15 cr.)
Public Health Education (15 cr.)
Certificate of Health Studies (Graduate)
Master of Science (M.S.) in Applied Health Science 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

Careers

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.

Scholarly Inquiry

The Department of Applied Health Science has a long-standing commitment to scholarly inquiry in a broad spectrum of areas emphasizing health promotion and prevention of health problems. Research and creative activity in the department includes both basic and applied work in program planning and development; evaluation of the effectiveness of instruction; examination of lifestyle and health behavior in relation to nutrition, exercise, stress, alcohol, tobacco, and other drug abuse, individual development and family health, communicable disease, human sexuality, and related areas. In addition to research projects, faculty members engage in a variety of other scholarly activities, including the preparation of articles, textbooks, and other publications. Faculty are frequently asked to present scholarly papers at regional, national, and international conferences.

Research, Instructional, and Service Projects

In addition to offering a variety of courses and degree programs, the department is continuously involved in a number of innovative research, instructional, and service projects that include the following:

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. Director: Crowe.

Hazard Control Program This project educates Department of Defense miliary and civilian personnel in the area of safety science. Director: Piercy.

Rural Center for the Study and Promotion of HIV/STD Prevention The major focus of this center is the promotion of HIV/STD prevention in rural America. A joint project of Indiana University and Purdue University, the center is funded by the U.S. Department of Agriculture and is headquartered at Indiana University. Senior Director: Yarber. Co-director: Torabi.

The Indiana Prevention Resource Center A statewide clearinghouse of prevention technical assistance and information about alcohol, tobacco, and other drugs, funded by a contract with the Indiana Family and Social Services Administration—Division of Mental Health. Director: Bailey.

The Indiana University Institute for Drug Abuse Prevention Directed by faculty in the Department of Applied Health Science, the institute provides a research and service infrastructure for a wide range of drug prevention grants and contracts. Co-directors: Bailey and Crowe.

Department of Kinesiology

Faculty

Chairperson Professor Morris

Professors Dapena; Fielding; Gallahue; Knight; Skinner; Surburg

Associate Professors Brechue; Brown; Burns; Burrus; Carlson; Hamm; Henson; Koceja; Raglin; Sailes; Stager; Ulrich, B.; Ulrich, D.; Wallace

Assistant Professors Bair; Bell; Cothran; Grove; Haven; Lara; Mindheim; Mull; Schrader; Vardaxis; Yeagley

Instructors Garl, Lawrence

Lecturers Beeker, Black, Chapin, Cousins, Ellenberger, Miller, Poppy, Smith, Tanner, Willett

Research Associate Jastremski

Kinesiology Web Page A comprehensive description of kinesiology degree programs, courses, faculty, research, institutes, and laboratories is accessible on the World Wide Web at URL: http://www.indiana.edu/~kines/.

Description of Program

The Department of Kinesiology 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 for K-12. Nonteaching options in athletic training, exercise science, sport communication, and sport marketing and management also lead to the Bachelor of Science in Kinesiology.

The undergraduate teacher preparation curriculum is a combination of courses in teaching methodology and the human movement sciences. Professional and technical instruction is 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, 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 that is open to majors as well as students from other departments and/or schools on the Bloomington campus. Included in the elective courses are 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 (Ph.D.) in human performance. A variety of emphasis areas are available for graduate degree candidates, including adapted physical education, administration/curriculum/instruction, applied sport science, athletic training, human performance, social science of sport, curriculum instruction, and sport management. The Ph.D. program in human performance emphasizes biomechanics, exercise physiology, adapted physical education, motor development and motor learning/control. The department operates human performance research laboratories in these areas.

Degree Programs

Degree programs currently available in the Department of Kinesiology include:

Bachelor of Science in Kinesiology
- Athletic Training
- Athletic Training—Teacher Preparation
- Exercise Science
- Sport Communication—Broadcast
- Sport Communication—Print
- Sport Marketing and Management
- Teacher Preparation—All Grade

Teaching and non-teaching minors are offered.

Master of Science in Kinesiology
- Adapted Physical Education
- Administration
- Applied Sport Science
- Athletic Administration/Sport Management
- Athletic Training
- Biomechanics
- Clinical Exercise Physiology
- Exercise Physiology
- Motor Development
- Motor Learning/Control
- Social Science of Sport

Director of Physical Education

Doctor of Physical Education

Doctor of Philosophy in Human Performance

Scholarly Inquiry

The faculty of the Department of Kinesiology engage in research and creative activity in a variety of areas, including the exercise sciences and the social science of sport and human development.

Within exercise science, the department supports research in exercise physiology, exercise biochemistry, clinical exercise physiology, motor learning, motor control, and

biomechanics. Additionally, studies involving motor development and the effects of physical activity on special populations have received considerable emphasis. Over the years, funding for these scholarly activities has included such sources as the United States Department of Education, Office of Special Education, The United States Olympic Committee, the Athletic Congress, Lilly Endowment, and the Amateur Athletic Union. Faculty and graduate students have presented research reports at various scientific meetings and published their research efforts in scientific journals. Faculty members have also presented and published papers dealing with various topics in sport as viewed from a social science perspective. Artists in modern dance have choreographed a number of different dances and have presented numerous concerts.

The department has been concerned with the dissemination of new knowledge at all levels. Scholars have been invited to present research colloquia at national and international meetings. Graduate students have been successful in obtaining university teaching and postdoctoral research positions following completion of their doctoral programs.

Research and Service Projects

Department faculty are involved in numerous research and service projects, such as the Adult Fitness program; the Human Performance Laboratory; scientific support services for the United States Olympic Committee; preparation of leadership personnel for the United States Department of Education; preparation of special educators in adapted physical education, funded by the United States Department of Education; the study of spinal control of balance in the elderly, funded by National Institute on Aging; and studies of the physical fitness of children, sponsored by corporations and nonprofit agencies.

Careers

Continuing national attention to fitness, sports medicine, sport, and an active way of life for all makes employment prospects excellent. Examples of the many career opportunities available are aquatics management, athletic administration, athletic training, cardiac rehabilitation, coaching/athletics, community centers, corporate fitness, fitness center management, laboratory research, public/private school teaching, preventive medicine, pulmonary rehabilitation, research, sports broadcasting, sport marketing, sports medicine, sports programming, sports reporting, teaching, and youth agencies.

Department of Recreation and Park Administration

Faculty

Chairperson Professor Meier

Professors Austin, Hronek, Mobley, Ridenour, Russell

Associate Professors Brayley, Hawkins; Jamieson; McLean; Robb; Ross, C.

Assistant Professors Knapp; Masberg; McCormick, Morales; Ross, J.; Silverman; Suren

Lecturers Bayless; Beeker; Behrman; Bunn; Getz; Parham; Price; Sharpless; Shepley; Solis; Zabriskie

Recreation and Park Administration Web Page A comprehensive description of recreation and park administration degree programs, courses, faculty, research, institutes, and laboratories is accessible on the World Wide Web at URL: http://www.indiana.edu/~recpark/.

Careers

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.

Description of Undergraduate Program

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 five emphases:
Park and Recreation Management
Therapeutic Recreation
Outdoor Recreation and Resource Management
Recreational Sport Management
Tourism Management

Description of Graduate Program

The graduate curriculum is for students 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 clinical and

nonclinical therapeutic recreation. The M.S. (Master of Science) in Recreation offers four major options:

General Administration This option is for students interested in public agencies, private/commercial agencies, college unions, tourism, or general administration/management.

Outdoor Recreation This option is for students interested in outdoor recreation management, resource management, camping administration, outdoor/environmental education, interpretation and outdoor leadership.

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

Therapeutic Recreation This option is 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.

Scholarly Inquiry

Scholarship in the Department of Recreation and Park Administration reflects a commitment to increasing the understanding of leisure and recreation at both basic and applied levels. Faculty and students are involved with scholarly research to develop findings that may be applied by practitioners. Illustrative of research on leisure behavior have been studies on the leisure behavior of women and physiological indicators of leisure experiences. Examples of applied studies have been investigations to establish national standards for park and recreation systems, to determine travel behavior and decision-making patterns, and to study the effects of outdoor recreation on the behavior of children with disabilities. A second area is the scholarship of teaching, where faculty engage in creative activities such as those funded by recent curriculum development grants from the Administration on Aging and the Department of Education. A third area of applied scholarship is the development of strategic plans for leisure service agencies and the provision of accessibility training for staff members of the National Park Service.

Each graduate faculty member pursues scholarship in a specialty, in addition to supervising scholarly activities of students. The department has several graduate emphases, including park and recreation administration, outdoor recreation resources administration, sport management, therapeutic recreation, and leisure behavior.

Research and Service Projects

Major programs within the department include the following:

The Bradford Institute on Disabled Americans Outdoors This alternative learning environment also serves as a treatment and recreational setting for persons with disabilities.

Bradford Woods Indiana University's nationally recognized outdoor education and camping center has 2,300 acres administered by the Department of Recreation and Park Administration. More than 10,000 people use the facility each year for workshops, conferences, academic programs, continuing education, research, and retreats. It is also the home of Camp Riley (a national camping demonstration area for people with disabilities) and the national headquarters of the American Camping Association.

Executive Development Program This midcareer park and recreation program assists executives in keeping abreast with the changing world and in continuing to develop managerial skills.

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

Leisure Research Institute Equipped with the latest in available computer support, this institute provides research support services to students and faculty as well as a focus for departmental research efforts and the expansion of cooperative research projects.

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

Other Research and Service Projects
Graduate and undergraduate students are afforded nonclassroom experiences through such programs and park and recreational facilities as these:
Summer Camp Job Fair
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

Personnel

Director Bayless

Associate Director Puterbaugh

Program Directors Cole, Handel, Kennedy, Pedersen, Grannon

Assistant Directors Auer, Ennis, Kolovou, McCoy, Hall-Yanessa, Jimenez

Coordinator Gregory

Recreational Sports Web Page A comprehensive description of all recreational sport opportunities is accessible on the World Wide Web at URL: http://www.indiana.edu/~recsport/.

Description of Programs

The mission of the Division of Recreational Sports is to provide sport and fitness services for students, faculty, staff, and the public to encourage an active, healthy lifestyle and to enhance a sense of community. This is accomplished by offering diverse sport and fitness opportunities, distinctive facilities and equipment, educational avenues for student development, and leadership to the profession. The division strives to be the most comprehensive, inclusive, and progressive recreational sports program in the country while making participation fun for all.

With two convenient campus locations, the Health, Physical Education, and Recreation Building (HPER) and the Student Recreational Sports Center (SRSC), the division offers a wide variety of programs and services to all participants at Indiana University. Programs are available to accommodate the diverse sports and fitness needs of students with families, people with disabilities, and international students. Opened in 1995, the SRSC is a 137,000-square-foot multipurpose facility, that includes three multipurpose sport areas, a five-court field house with a 1/8 mile elevated running/jogging/walking track, an Olympic-size pool, a diving well with competition towers, 10 racquetball/handball courts, four squash courts, two conditioning/weight training rooms, an auditorium, locker rooms, and a fitness consultation room.

The Division of Recreational Sports makes maximum use of all campus sport facilities for aquatic, informal, intramural, club sport, and fitness activities. For students who enjoy recreational activities at their leisure, informal sports hours have been increased during prime time at both the HPER Building and at the SRSC; time scheduled for informal swimming has been increased 300 percent. Equipment check-out is also available at no charge to students with a valid Indiana University identification card. Locker rentals are available at both the HPER Building and the SRSC.

The intramural sports program sponsors men's, women's, and co-intramural tournaments in team, dual, individual, and meet competitions. Sport clinics are offered to help place students on teams, to review game rules, and to teach proper warm-up exercises. Students interested in tournament competition will enjoy the availability of volleyball and basketball courts, as well as a competition court for championship games and special events.

The club sports program offers students more than 40 club opportunities ranging from aikido to fencing to tennis to wrestling. Clubs help students share a common interest in a particular sport, whether the emphasis within the club is social, instructional, or competitive.

For students who enjoy the water, the aquatics program offers three heated, indoor pools and a diving well with competition boards and towers. Noncredit swimming instruction is available. The division also offers lifeguard training sessions and Water Safety Instructor (WSI) sessions for students who want to learn the techniques of water rescue or swimming instruction. With the Olympic-size pool and diving well at the SRSC's Councilman/Billingsley Aquatic Center, the division is able to host NCAA swimming, diving, and water polo competitions. The division also hosts special events such as United States Swim Association state and national swimming events, intramural and club events, and family swim times.

The fitness/wellness program offers students the expertise of fitness/wellness consultants in two strength and conditioning rooms, with a total of 400 pieces of variable resistance, free weight, and cardiovascular equipment.

Consultants provide fitness testing and assessment, and equipment orientation. A staff of highly qualified personal trainers is available to provide personal training services and wellness education. The fitness/wellness program also offers a wide range of group exercise sessions such as slide, step, indoor cycling, total body conditioning, pure stretching, Resist-A-Ball, and deep water exercise. Mind/Body sessions are also available, offering instruction in Yoga and Tai Chi.

Noncredit instruction is offered in a number of sports, including tennis, trap and skeet, and rifle and pistol. Instruction is made available through clinics and lessons and takes place in auxiliary facilities such as the Indiana University Tennis Pavilion, the Trap and Skeet Range, and the Indiana Memorial Union Rifle and Pistol Range.

As part of the overall program, several paid and volunteer leadership experiences are available to students who want to get involved in supervising, officiating, unit management, or other leadership roles within the division. Through their academic unit, students can acquire an option in recreational sports by participating in these leadership experiences.

Undergraduate Program

Admission

For in-depth information on the School of Health, Physical Education, and Recreation, as well as Indiana University, visit the HPER home page on the World Wide Web at URL: http://www.indiana.edu/~hper.

For information on admission procedures and curriculum requirements, students seeking the bachelor's degree are advised to contact:

Office of the Dean
School of Health, Physical Education, and Recreation
HPER 115
Indiana University
Bloomington, IN 47405-4801
(812) 855-1561

An undergraduate enrolled through the University Division must have completed at least 26 credit hours with at least a 2.0 grade point average in order to declare a major with the School of Health, Physical Education, and Recreation. Additional requirements for specific programs are listed below. Undergraduate students who complete the semester before certification of admission to the school with less than a 2.0 for the semester will be admitted on a probationary status.

HPER GradPact Program
Those students who are, upon entrance to Indiana University Bloomington, able to determine their university major and who need to graduate as quickly as possible, may wish to consider the School of HPER GradPact Program. The HPER GradPact Program guarantees that the student with a HPER major will graduate within 128 graduation credits if those courses listed on the degree tab sheet are successfully completed.

Part I. Student Responsibility: Responsibility for academic success within the HPER GradPact Program is ultimately the student's.

Timely completion of requirements. Students begin study in their major early enough so that they can arrange their courses of study and begin progress toward their degree in a timely manner. This means that students (1) should begin the completion of course requirements for admission to their School of HPER major in the first semester of their first year, (2) must complete all and only the course and competency requirements set forth in the HPER GradPact contract, (3) may change majors within the School of HPER at any time if the change does not impede their eligibility to graduate with no more than a total of 128 graduation credits, and (4) may not apply HPER GradPact toward minors. (Courses taken outside this contract that make students' total completed credit hours more than 128 graduation credits render them ineligible for continuing on this graduation assurance program.)

Consistent Progress: Students must make consistent progress toward their degree. This means that students (1) must have completed all campus procedures for signing on and remaining eligible for HPER GradPact prior to their admission to a School of HPER major, (2) must complete all School of HPER stipulated procedures for remaining eligible for the HPER GradPact program once admitted to a School of HPER major, (3) must, after certifying into a HPER major, meet with their HPER-assigned advisor during the preregistration advising period each semester enrolled (students in HPER majors not using HPER-assigned advisors will not be eligible for HPER GradPact), (4) are responsible for tracking their own progress, and (5) with the following credits may not count them in the 128 graduation credit total for the HPER GradPact eligibility: remedial course credits (such as Math M014), transfer credits from another college or university that do not count toward the degree requirements, and courses for which grades lower than the degree program accepts were earned (such as earning a D in a nutrition core course where a minimum grade of C– is required for nutrition science majors.)

Part II. School Responsibility: The development and implementation of a quality educational plan for entrance into careers in health, kinesiology, and recreation is the responsibility of the faculty of the School of Health, Physical Education, and Recreation.

Guarantees. The School of HPER guarantees students adequate opportunities for the completion of the degrees within 128 graduation credits.

1. School of Adjudication Office staff supervise HPER GradPact student records and work closely with department academic advisors.
2. Academic departments make courses available in a reasonable and timely manner.
3. Academic departments plan curriculum requirements that qualify graduates for careers within their major and may be accomplished with 128 graduation credits. Students in majors requiring more than 128 graduation credits (because of accrediting body standards and licensure

requirements) have adjusted graduation assurance plans.
4. Academic departments make periodic reviews of the curricula to assure currency of the majors offered.
5. Academic departments prepare curriculum materials that are comprehensible to students and that are reliable (that is, not changed on any ad hoc basis).
6. All students with a HPER major are assigned an official HPER academic advisor.
7. The School of HPER Records Office staff maintain the IUCARE system for those students with School of HPER majors.

Application for a Second Undergraduate HPER Degree A student who is interested in pursuing a second undergraduate degree in the School of HPER must complete the following steps:
1. Meet with a HPER undergraduate advisor in the department where the second degree is to be pursued in order to discuss the appropriateness of the second undergraduate degree and to review alternative ways to achieve your academic and career goals (e.g., a minor, a certificate program, or a graduate program in the academic area).
2. Take at least two courses in the academic area of the additional degree before officially making application to the second undergraduate program.
3. Complete the application for a second undergraduate degree (HPER 115). If the entrance requirements for the major have been met, the Records Office will notify the applicant in an official admission letter.

Second Undergraduate HPER Degree Regulations
1. The student must meet the school residence requirement, which states that 30 of the last 60 credit hours and two of the last four semester of university work must be completed at the Bloomington campus.
2. The second degree must be in a different department than the first degree.
3. A student pursuing a second undergraduate degree may not enroll in graduate course work unless enrolled in the last semester for both undergraduate majors.
4. If the first degree is from another college or university, the applicant must apply to Indiana University through the Office of Admissions.

Department of Applied Health Science

General Information 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 or the undergraduate academic advisor.

Special Admission Requirements A cumulative entrance grade point average of 2.5 (on a 4.0 scale) is required for majors in human development/family studies, dietetics, and nutrition science.

Department of Kinesiology

General Information The Department of Kinesiology offers undergraduate programs in athletic training, sport communication, exercise science, sport marketing and management, and teacher preparation. The following programs have special admission requirements.

Athletic Training Program The number of students admitted to the professional athletic training emphasis is limited to the number of practicum spaces available. Students who want to enter the Athletic Training Program and believe that they have met entrance requirements (see requirements under "Admission" below), or are in the process of doing so, should obtain an application form from:

Office of the Dean
School of Health, Physical Education, and Recreation
HPER 115
Indiana University
Bloomington, IN 47405-4801
(812) 855-1561

The completed form, together with the first semester and second semester (midterm report) grade slips, must be presented to the HPER Records Office by April 1.

Criteria for admission to the Athletic Training Program are:
1. Formal application to the program including:
   a. three letters of recommendation
   b. biographical sketch
   c. completion of athletic training application form
2. Interview with Athletic Training Admissions Committee
3. Completion of HPER H160 and HPER P280 with a grade of B or better
4. Completion of ANAT A215 with a grade of C or better
5. University GPA of 2.5 or better

Based on the criteria listed above, the Athletic Training Program coordinator will notify the department chairperson by June 1 of the

selection committee's decision on a student's application. 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.

Acceptance is based on a student's total academic record, background, and experience as long as openings in the program exist. Students satisfying the Athletic Training Program conditions stated above are not guaranteed positions in the program.

Sport Communication Program A minimum of 26 credit hours and a cumulative entrance grade point average of 2.5 (C+) is required for admission to the Sport Communication Program. In addition, students seeking the sport communication-print emphasis must meet the entrance requirements for the School of Journalism Certificate program in order to be eligible to register for advanced journalism courses.

Sport Marketing and Management Program Admission to the Sport Marketing and Management Program is currently limited to 30 students per year. A student seeking entrance into the program is eligible for consideration under the following conditions:

1. Completion of 56 credit hours of college course work that counts toward graduation. This course work may be completed at Indiana University or at another accredited institution offering comparable course work. The applicant must be in good academic standing.
2. Successful completion of the following 10 prerequisite courses:
   BUS A201-A202 Introduction to Accounting I and II (P: A200)
   BUS L201 The Legal Environment of Business
   ECON E201 Introduction to Microeconomics
   ECON E202 Introduction to Macroeconomics
   ENG W131 Elementary Composition *or* W170 Projects in Reading and Writing *or* equivalent
   HPER P211 Introduction to Sport Management
   MATH M118 Finite Mathematics *or* M119 Brief Survey of Calculus
   PSY P101 Introduction to Psychology I
   SOC S100 Sociological Analysis of Society
   For purposes of admission, the *average* of the grades earned in the prerequisite courses will be used to compute the GPA. When a grade of FX is used in this computation, both the F and the replacement grade will be used to compute the prerequisite average GPA.
3. Completion of ENG W131 with a C– or better.
4. Submission of an application by the required deadline. Undergraduates are admitted to the Sport Marketing and Management Program one time per year. The application deadline for admission for the fall semester is June 15. The application deadline for admission for summer sessions is January 15. Grades for all prerequisite course work must be on the student's university transcript by July 10 to be valid for fall admission. Applications are available at the School of Health, Physical Education, and Recreation, Records Office, Room 115.
5. Participation in the Sport Marketing and Management Orientation Program. After receiving an offer of admission, students are required to attend an orientation program at a time specified in the offer. Failure to attend this orientation program will cause the offer of admission to be withdrawn. Each application is reviewed individually. Applications will be reviewed *primarily* based on grades. Additional factors *may* include extracurricular activities, work experience, rigorousness of course work and trend of grades.

Physical Education Teacher Education Program Students seeking an undergraduate degree in physical education teacher education and an All-Grade Teaching License must be admitted to *both* the Department of Kinesiology Physical Education Teacher Education (PETE) program and to the School of Education Teacher Education Program. Usually, students apply for admission to the PETE program during the spring of the freshman year and to the School of Education Teacher Education Program before the end of the sophomore year.

Students seeking admission to the PETE program in the Department of Kinesiology are eligible for consideration under the following conditions.

1. Completion of 26 hours of college course work that counts toward graduation
2. University GPA of 2.3 or better
3. Completion of the following two prerequisite courses with a minimum grade of C (2.0) in each course and a minimum overall GPA of 2.3 in the courses:
   a. HPER P140 Foundations of Physical Education
   b. HPER P141 Fundamentals of Human Movement
4. Formal application to the program, including:
   a. submission of a completed application form to the Office of the Dean by March 1 for summer and fall admission and by November 1 for Spring admission

b. current transcript including grades for P140 and P141
c. three letters of recommendation
d. personal interview

Admission standards for the Teacher Education Program in the School of Education are listed separately under "Admission to the Teacher Education Program."

Department of Recreation and Park Administration

General Information 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 HPER R160 Recreation and Leisure will be given appropriate application materials. A student seeking admission to the Department of Recreation and Park Administration is eligible for consideration under the following conditions:

1. Completion of the following three courses with a minimum grade of C (2.0) or better:
   a. English W131 Elementary Composition (3 cr.)
      or W170 Projects in Reading and Writing or equivalent (3 cr.)
   b. Communication and Culture S121 Public Speaking (3 cr.)
      or Communication and Culture S122 Interpersonal Communication (3 cr.)
   c. Psychology P101 Introductory Psychology I (3 cr.)
2. Formal application to the program, including:
   a. application form (available in HPER 133)
   b. three letters of recommendation
   c. applicant interview with a faculty member in the department
   d. written personal philosophy statement
   e. current transcript including grades for English W131, Communication and Culture S121 or Communication and Culture S122, and Psychology P101.
3. Optional Admission Criteria:
   a. Undergraduate programs in therapeutic recreation, tourism management, and park and recreation management require a minimum overall GPA of 2.3 for admission.
   b. The Sport Management program requires a minimum overall GPA of 2.5 for admission.
   c. Outdoor Recreation and Resource Management requires a 2.3 GPA for admission. In addition, the student must have a minimum GPA of 2.0 for the 5 credit hours of life/physical science electives.

Admission to the Teacher Education Program

Students who want to obtain a teaching certificate must be admitted to the Teacher Education Program. Education majors should note that admission to the School of Education is separate from admission to the Teacher Education Program. The standards for admission to the Teacher Education Program, listed below, apply to both education and non–education majors. The standards must be met before the student may enroll in advanced professional education courses.

Admission to Senior High/Junior High/Middle School, All-Grade, or Special Education Programs Students seeking admission to the senior high/junior high/middle school, all-grade, or special education programs must meet the standards described below:

1. Admission application.
2. Minimum overall GPA of 2.5.
3. Minimum grade of C in the course designated for oral expression and in courses designated for written expression. (ENG W131, ENG L141[1], ENG L142[1], AFRO A141[1], AFRO A142[1], ENG W103, ENG W203, ENG W301, and ENG W350). NOTE: The speech requirement may not be met by correspondence.
4. Minimum grade of C (2.0) in EDUC P255/M201[2] (secondary) or EDUC P254/M201[2] (all-grade) as well as EDUC M300.
5. Minimum GPA of 2.5 in 12 credit hours of the student's major.
6. Passing scores on the admission test.[3]
7. Graduation certification requirements for those seeking an Indiana Teaching Certificate are a 2.5 GPA in professional education, a 2.5 GPA in the major, and a passing score on the National Teacher Exam Core Battery and special test in the major subject area.

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[1]ENG L141, ENG L142, AFRO A141, and AFRO A142 are each 4 credit hour courses. Three credit hours of each course will count as literature and 1 credit hour of each will count as composition. A141 or A142 may be substituted for L141 and L142.

[2]M101 or M201 requires a grade of S to satisfy admission requirements.

[3]Students with strong GRE, SAT, or ACT scores should inquire in Education Student Services about the possibility of waiving parts of the admission test. All students must take the writing portion of the test.

Academic Regulations

Credits and Grade Point Average Requirements

A minimum of 124 credit hours is 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 grades of I, S, P, or W. A minimum cumulative grade point average of 2.0 (C) is required for the baccalaureate degree. In addition, a minimum grade point average of 2.0 is required for all courses completed in the major area and in the minor area. Completion of ENG W131 (3 cr.) or equivalent with a grade of C– or better is a general requirement of all students in the school.

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.

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 from the dean of the School of Health, Physical Education, and Recreation. A student who has 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.

Advising

Because the advisor-student relationship is so beneficial to the student's academic progress, HPER students are required to meet regularly with their advisors for ongoing assistance in academic and career planning.

Program Requirements/Tab Sheets

In the School of Health, Physical Education, and Recreation, the requirements for each degree program are outlined on a tab sheet, available in HPER 115. The tab sheet for each academic program specifies such requirements as total credit hours needed for completion of the degree, courses to be taken, GPA requirements, suggested electives, and other information. These tab sheets are used by students and their academic advisors to guide the selection of courses and monitor progress. Adhering to the requirements specified on the tab sheet is the student's responsibility. The program requirements in this bulletin are listed in the same order as found on the tab sheets. This is to show the order in which the school suggests these courses be taken.

Tab sheets are used in conjunction with a Registration Approval Form. Students meet with academic advisors to identify the courses in which they will enroll, and then submit the completed registration approval form to the Records Office in HPER 115 to receive the registration ticket. (Additional registration information is available in the *Schedule of Classes*.)

Elective Courses

Elective courses are identified on the tab sheets. All programs provide elective courses to allow flexibility in the student's academic preparation. Students should consult with their academic advisors before choosing elective courses.

There are two types of elective courses: specialized electives, chosen from a prescribed list, and free electives, chosen from the entire list of university offerings. Free electives allow students to enroll in any course, except as indicated below in "Restrictions." These free elective credit hours may count toward the total credit hours required for the degree and may be taken under the Pass/Fail option. Students may wish to take free electives for personal enrichment.

Restrictions

No EDUC "F"courses and no COAS "J" courses, with the exception of COAS J113, may be used to satisfy the general-education requirements. Credit earned in courses below the 100 level 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.

Incompletes

The grade I is given only under circumstances beyond the student's control that prohibit completion of the course on time, and when the work of the course is substantially completed and 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, contact the instructor. A student must remove the Incomplete within one calendar year from the date of its recording. The dean, however, authorizes 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.

If an instructor requests that the student retake the course in order to have an Incomplete removed, it is not necessary to re-register for the course. Once a student has graduated, an Incomplete may remain on the official record.

In research and reading courses, the work of the course is not necessarily required at the end of the semester. If work is incomplete, an R (deferred) grade may be assigned.

Residence

A minimum of 30 of the last 60 credit hours of university work must be completed in residence on the Bloomington campus. After being admitted to the School of Health, Physical Education, and Recreation, a student must complete two of the last four semesters of work on the Bloomington campus. The associate dean must approve any plan for off-campus course work.

Pass/Fail Option

A student may enroll in one course per semester under the Pass/Fail option. Only free electives may be taken Pass/Fail, unless otherwise stipulated by the specific degree requirements. It is the responsibility of the student to check the major or emphasis area to determine specific restrictions.

Decisions to take courses Pass/Fail must be processed with the Office of the Dean in the School of Health, Physical Education, and Recreation no later than the end of the third week of the semester or by the fifth day of the summer session. A grade of P is not counted in computing grade point averages, but a grade of F is counted. A grade of P may *not* be changed to any other letter grade.

Requirement Exceptions

Under extraordinary circumstances, a degree requirement exception, such as a course substitution or waiver, may be made for an admitted HPER student. The student's HPER academic advisor must initiate a requirement exception request by completing and signing a "course substitution request form." The advisor or the student must then deliver the form to the Records Office, HPER Room 115. Ultimate responsibility for delivery of the form to HPER Room 115 rests with the student. A final approval or disapproval decision will be made by the associate dean for academic program administration. A copy of the reviewed form with a decision will be sent to the initiating advisor for notification. The student should check with his or her advisor two to three weeks after submission about the outcome of the request.

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 chair of the department in which the course is offered and the dean of the school in which the student is enrolled.

Withdrawals from Courses

A grade of W (Withdrawn) is given automatically when a withdrawal occurs during a specific span of time after the final schedule adjustment period at the beginning of a regular semester or summer session. For the dates of this period consult the *Schedule of Classes*. Withdrawals that would reduce a student's enrollment below 12 credit hours or interrupt 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 a grade of F.

Absences

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 a temporary 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.

Academic Standing

Candidate for Bachelor's Degree in Good Standing Students are considered to be candidates in good standing for an Indiana University bachelor's degree when they have been officially admitted by the Office of Admissions, when their minimum academic grade point average is 2.0 (C) for the last semester's work, and when their cumulative grade point average is at least 2.0 (C). Consult

other sections in this bulletin on the specific program of study for additional degree standards.

Class Standing Class standing is based on the number of credit hours completed:

First year:	fewer than 26 cr.
Sophomore:	26 to 55 cr.
Junior:	56 to 85 cr.
Senior:	86 or more cr.

Academic Probation

Students are placed on academic probation for the semester following the one in which they failed to earn a C average. Students remain on probation as long as they fall below a C average in a given semester or if their cumulative grade point average drops below 2.0 (C).

Dismissal

Students will be dismissed from the School of Health, Physical Education, and Recreation when, in the judgment of the Scholarship and Probation Committee, they have ceased to make academic progress toward their degree. Students who fail to attain a minimum grade point average of 2.0 in any two semesters *and* who have a cumulative grade point average below 2.0 will be dismissed automatically. (Note that these students will have been placed on probation prior to their dismissal.)

Students with two consecutive semester grade point averages below 2.00 will be carefully evaluated with the possibility of dismissal at the discretion of the Scholarship and Probation Committee.

In special cases a student who has been dismissed may petition the committee for readmission within 10 days of receiving a dismissal notification.

Academic misconduct (cheating, fabrication, plagiarism, interference, violation of course rules, or facilitating academic dishonesty) may also result in a student's dismissal from the school. Consult the "Policy on Academic Misconduct" in the *Code of Student Rights, Responsibilities, and Conduct* (The policy is reproduced in the *Schedule of Classes*) for information about these policies and procedures.

Readmission

The School of Health, Physical Education, and Recreation is not obligated to readmit students who have been dismissed. Students who have been dismissed from the school for academic reasons can be considered for reinstatement only after at least one regular (fall or spring) semester. To be considered for reinstatement, a student must submit a reinstatement application form, available from the Office of the Associate Dean of the school. Requests for readmission cannot be considered if the university has placed the records on hold for any reason, such as for outstanding fees. In considering a request for readmission, the committee will need to be convinced that the student now has sufficient aptitude to pursue the intended program of study. Students must also show signs of increasing maturity, increasing commitment to their education, and adequate financial resources without excessive employment.

In granting readmission, the committee may require special conditions, such as a 12 credit hour maximum enrollment per semester; regular tutoring sessions; participation in relevant professional organizations; or registration in writing, reading, and/or study skills courses.

Degree Application

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

Correspondence Study

Course work taken via correspondence may be accomplished through the Division of Extended Studies, which is part of the School of Continuing Studies. Special permission of the associate dean for academic program administration, School of HPER, is required of students registering for correspondence course work. A minimum 2.00 cumulative grade point average is required for a student to enroll in correspondence course work. Students applying correspondence study toward degree requirements must demonstrate consistent progress toward course completion. No more than 6 credits of correspondence courses may be active at a time. A maximum of 30 credit hours of such courses may be counted toward a HPER degree. Courses taken by correspondence may not be used to meet the HPER residency requirement. CMCL S121 Public Speaking may not be taken by correspondence.

Graduate Credit for Undergraduates

Candidates for the Bachelor of Science degree at Indiana University who are within 5 credit hours of completing requirements for that degree, when granted specific approval, may take certain graduate courses for graduate credit during the last undergraduate semester.

Undergraduate Student Research and Travel Grant-In-Aid

Student research and publication support is viewed by the School of Health, Physical Education, and Recreation faculty as an

essential component in an academic environment that encourages undergraduate and graduate students to become actively engaged in research-related activities. The program of financial support for undergraduate student research in the school is intended to provide support for inquiry (Student Research Grant-In-Aid) and the dissemination of research results (Student Travel Grant-In-Aid). Two competitions are held annually with deadlines of November 1 and March 1. Applications and information are available in HPER 115.

Undergraduate Student Research and Human Subjects

Indiana University requires that all research using human subjects be approved before the research begins. This satisfies a number of federal, state, and institutional regulations, and more importantly, assures protection of the rights and welfare of persons used in research. Every research proposal submitted by a student and/or a faculty member must contain documentation that clearance has been obtained for the use of human subjects. A faculty member must sponsor this research. Forms and procedures for this purpose are available in HPER 115.

General Education Course Requirements

All undergraduate students in the School of Health, Physical Education, and Recreation are required to complete credit hours in general education by selecting courses from three areas: humanities; life and physical sciences; and social and behavioral sciences. In the next pages of the bulletin, specific courses and total credit hour requirements are listed, along with other course requirements for each area of specialization. **Please consult current course requirement tabulation sheets for each area of specialization.** Course requirement tabulation sheets may be obtained from the Records Office, School of Health, Physical Education, and Recreation, HPER 115.

Humanities

Each of our undergraduate specializations require specific oral and written expression courses. In addition, many specializations require additional humanities elective courses.

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[1]ENG L141 and ENG L142 as well as AFRO A141 and AFRO A142 are each 4 credit hour courses. Three credit hours of each course will count as literature and 1 credit hour of each will count as composition.
[2]ENG W143 is composition credit attached to a specified literature course. It may be repeated once for credit.

Courses to fulfill this humanities elective requirement must be taken in the following departments and schools:

Departments
Afro-American Studies
Central Eurasian Studies
Classical Studies
Communication and Culture
Comparative Literature
East Asian Languages and Literature
English
Fine Arts
Folklore
French and Italian
Germanic Studies
India Studies
Linguistics
Near Eastern Languages and Cultures
Philosophy
Religious Studies
Slavic Languages and Literatures
Spanish and Portuguese
Telecommunications
Theater and Drama
COAS E103 Topics Courses (Credit for only one topic may count in humanities electives.)

Schools
Health, Physical Education, and Recreation: HPER R160 *only*
Journalism
Music (no applied courses)

In addition to the departments listed above, humanities courses from other departments may be substituted at the request of an admitted HPER student's School of Health, Physical Education, and Recreation advisor with the approval of the associate dean for academic program administration.

Life and Physical Sciences

Each undergraduate specialization requires courses in life and physical sciences. Some courses are specifically required, and others are elective course requirements to be chosen from the following departments:

Life Science Departments
Anatomy and Physiology (School of Medical Sciences)
Biology

Physical Sciences and Mathematics
Astronomy
Chemistry
Computer Science
Geography (Physical)
Geological Sciences
Mathematics
Physics
COAS J113 Introduction to College Mathematics III
COAS E105 Topics Courses (Credit for only one topic may count in life and physical science electives.)

HPER Life and Physical Science Courses
The following are the only HPER courses that will satisfy this science requirement:
HPER H363 Personal Health (3 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)

In addition to the departments listed above, life and physical science courses from other departments may be substituted at the request of an admitted HPER student's School of Health, Physical Education, and Recreation advisor with the approval of the associate dean for academic program administration.

Social and Behavioral Sciences

Each of our undergraduate specializations require courses in social and behavioral sciences. Some courses are specifically required, and others are elective course requirements to be chosen from the following departments:

Departments
Anthropology
Economics
Geography (Human and Regional)
History
Political Science
Psychology
Sociology
COAS E104 Topics Courses (Credit for only one topic may count in social and behavioral science electives.)

In addition to the departments listed above, social and behavioral courses from other departments may be substituted at the request of an admitted HPER student's School of Health, Physical Education, and Recreation advisor with the approval of the associate dean for academic program administration.

General Education for the Standard License in Senior High/Junior High/Middle School, and All-Grade Education

A minimum of 45 credit hours is required and must include 9 credit hours in specified courses in oral and written expression. The same general education requirements also apply to the standard license in senior high/junior high/middle school education and to the standard license in all-grade education; however, the minimum number of credit hours required for the all-grade education license is 40. Course work must be included from the three areas indicated: humanities, 18-24 credit hours; life and physical sciences, 9-15 credit hours; and social and behavioral sciences, 9-15 credit hours. NOTE: In order to attain the minimum 45 credit hours (40 for all-grade education) 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 credit hours in each category is also limited by a maximum number.) The speech requirement may not be met by correspondence.

Applied Health Science Degree Programs

Certificate in Hazard Control Technology

A one-year program of study for the entry-level practitioner who is interested in becoming a safety technician or who will have safety as a collateral responsibility. No Pass/Fail allowed.

Required Health and Safety courses (18 cr.)
Choose any six (6) from the following:
HPER S101 Introduction to Safety Science (3 cr.)
HPER S151 Safety Codes and Standards (3 cr.)
HPER S201 Introduction to Industrial Hygiene (3 cr.)
HPER S202 Fundamentals of Fire Protection (3 cr.)
HPER S210 OSHA General Industry Standards (3 cr.)
HPER S212 Standards for Specific Industry (3 cr.)
HPER S230 Safety and Health Concepts in Business and Industry I (3 cr.)
HPER S231 Safety and Health Concepts in Business and Industry II (3 cr.)
HPER S251 Accident Investigations, Analysis, and Reporting (3 cr.)
HPER S332 Ergonomics and Human Factors (3 cr.)
HPER S345 Safety Program Management (3 cr.)
HPER S352 Systems Safety Analysis (3 cr.)
HPER S354 Hazardous Materials and Waste Control (3 cr.)
HPER S415 Safety Education and Training (3 cr.)
HPER S425 Safety Administration (3 cr.)

General-Education Courses (14 cr.) as approved by advisor
ENG W131 Elementary Composition I (3 cr.)
CMCL S121 Public Speaking (3 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
or CHEM C105 Principles of Chemistry I (3 cr.)
CHEM C121 Elementary Chemistry Lab I (2 cr.)
or CHEM C125 Experimental Chemistry I (2 cr.)
PHYS P101 Physics in the Modern World (4 cr.)
PYS P101 Introductory Psychology I (3 cr.)
POLS Y103 Introduction to American Politics (3 cr.)

Associate of Science Degree in Hazard Control Technology

A two-year program to prepare entry-level specialists. Building on 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 bachelor's degree in safety. Required are 64 credit hours, 39 of which must be in safety and health courses and 25 of which must be in general education. See an advisor for specifics. No Pass/Fail allowed.

Specialist in Occupational Safety—Associate Degree

Required Health and Safety Courses (30 cr.)
HPER S101 Introduction to Safety Science (3 cr.)
HPER S151 Safety Codes and Standards (3 cr.)
HPER S201 Introduction to Industrial Hygiene (3 cr.)
HPER S202 Fundamentals of Fire Protection (3 cr.)
HPER S210 OSHA General Industry Standards (3 cr.)
HPER S212 Standards for Specific Industry (3 cr.)
HPER S230 Safety and Health Concepts in Business and Industry I (3 cr.)
HPER S231 Safety and Health Concepts in Business and Industry II (3 cr.)
HPER S251 Accident Investigations, Analysis, and Reporting (3 cr.)
HPER S354 Hazardous Materials and Waste Control (3 cr.)

Elective Health and Safety Courses (9 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER S317 Seminar in Safety (1-3 cr.)
HPER H363 Personal Health (3 cr.)
HPER S332 Ergonomics and Human Factors (3 cr.)
HPER S345 Safety Program Management (3 cr.)

Humanities (9 cr.)
ENG W131 Elementary Composition I (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
CMCL S121 Public Speaking (3 cr.)

Life and Physical Sciences (10 cr.)
PHYS P101 Physics in the Modern World (4 cr.)
PHYS P201 General Physics I (5 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
or CHEM C105 Principles of Chemistry I (3 cr.)
and CHEM C121 Elementary Chemistry Lab I (2 cr.)
or CHEM C125 Experimental Chemistry I (2 cr.)
CHEM C102 Elementary Chemistry II (3 cr.)
or CHEM C106 Principles of Chemistry II (3 cr.)
and CHEM C122 Elementary Chemistry Lab II (2 cr.)
or CHEM C126 Experimental Chemistry II (2 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)

Social and Behavior Sciences (6 cr.)
PSY P101 Introduction to Psychology (3 cr.)
Social and Behavior Science elective (3 cr.)

Bachelor of Science Degree Programs

The Bachelor of Science in Applied Health Science is a four-year degree program that has six areas of emphasis: health education—secondary teacher preparation, public health education, occupational safety, human development/family studies, nutrition science, and dietetics. The Pass/Fail option is allowed only for free electives. Requirements for each of the six areas of emphasis follow.

Health Education—Secondary Teacher Preparation

(Applied Health Science Major)

Four-year program leading to a Provisional Teaching Certificate and the degree of Bachelor of Science in Applied Health Science with an emphasis in school and college health education. A minimum of 124 credit hours is required for this program. To receive a teaching license, a minimum 2.5 cumulative GPA is required.

Health—Teacher Preparation

Professional Health and Safety Courses (42 cr.)

A minimum grade of C– is required for each course. A minimum cumulative GPA of 2.5 is required for the licensing requirement.

Required Courses (30 cr.)
HPER C366 Health Problems in the Community (3 cr.)
HPER F255 Human Sexuality (3 cr.)
HPER F449 Childhood and Adolescence (3 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER H311 Human Diseases and Epidemiology (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 Evaluative Methods in Health and Safety (3 cr.)
HPER N220 Basic Nutrition
or HPER N231 Human Nutrition (3 cr.)

Select 12 credit hours from the following:
EDUC R503 Applications of Instructional Media and Technology (3 cr.)
HPER F258 Marriage and Family Interaction (3 cr.)
HPER F317 Topical Seminar (3 cr.)
HPER H163 Current Health Topics (3 cr.)
HPER H180 Stress Prevention and Management (3 cr.)
HPER H220 Death and Dying (3 cr.)
HPER H305 Women's Health (3 cr.)
HPER H310 Health Care in Minority Communities (3 cr.)
HPER H315 Consumer Health (3 cr.)
HPER H317 Topical Seminar in Health Studies (3 cr.)
HPER H320 The Nature of Cancer (3 cr.)
HPER H324 Gerontology: Multidisciplinary Perspectives (3 cr.)
HPER H326 AIDS and Other Sexually Transmitted Diseases (3 cr.)
HPER H327 Practicum in College Death Education (3 cr.)
HPER H340 Practicum in College Sex Education (3 cr.)
HPER H418 The Nature of Addictive Disorders (3 cr.)
HPER H445 Travel Study (3 cr.)
HPER H460 Practicum in First Aid Instruction (3 cr.)
HPER S350 School and Community Safety (3 cr.)

Life and Physical Science (13 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)
CHEM C101 Elementary Chemistry (3 cr.)
or CHEM C105 Principles of Chemistry I (3 cr.)

Humanities (18 cr.)
Oral and Written Expression (9 cr.) A minimum grade of C is required for each course.
ENG W131 Elementary Composition I (3 cr.)
or ENG W170 Projects in Reading and Writing (3 cr.)
CMCL S121 Public Speaking (3 cr.)
or CMCL S122 Interpersonal Communication (3 cr.) (no correspondence for speech)
Courses to complete the 9 credit hour requirement (minimum grade of C):
ENG W103 Introductory Creative Writing (3 cr.)
or ENG W231 Professional Writing Skills (3 cr.) *or* ENG W143 Interdisciplinary Study of Expository Writing (1 cr.) (taken with CMLT C145 Major Characters in Literature (3 cr.), C146 Major Themes in Literature (3 cr.), *or* SLAV R145 Introductory Studies in Russian Literature I (3 cr.), R146 Introductory Studies in Russian Literature II (3 cr.)
or CMCL S122 Interpersonal Communication (3 cr.)

Humanities electives (9 cr.) Must have two departments represented. See advisor.

Social and Behavioral Sciences (9 cr.)
Distribution of 9 credit hours to be selected from at least three of the following departments: Anthropology, Economics, Human Geography, History, Political Science, Psychology, and Sociology.

Professional Education Courses (Secondary—minimum 30 cr.)
(A minimum GPA of 2.5 and not less than a C in each course.)
EDUC W200 Microcomputers in Education (3 cr.)
EDUC P255 Educational Psychology (3 cr.)
EDUC M201 Laboratory—Field Experience (2 cr.)
EDUC M300 Teaching in Pluralistic Society (3 cr.)
EDUC M314 General Methods for Secondary Education (3 cr.)
EDUC M303 Laboratory—Field Experience (0 cr.)
EDUC H340 Education and American Culture (3 cr.)
EDUC M458 Methods of Teaching Health and Safety (3 cr.)
EDUC M403 Laboratory—Field Experience (0 cr.)
EDUC M464 Methods of Teaching Reading (3 cr.)
EDUC M480 Student Teaching (10-16 cr.)

MINOR AREA (Recommended. 24 credit hours minimum—see School of Education Bulletin for course selection.)

Free Electives (12 cr.)
See advisor for recommended electives. The Pass/Fail option is allowed unless the credit is used toward the minor.

Suggested Teacher Preparation Courses for Freshman Year (30 cr.):
HPER H160 First Aid and Emergency Care (3 cr.)
HPER H363 Personal Health (3 cr.)
CHEM C101 Elementary Chemistry (3 cr.)
or C105 Principles of Chemistry (3 cr.)
EDUC W200 Microcomputers in Education (3 cr.)
ENG W131 Elementary Composition (3 cr.)
or W170 Projects in Reading and Writing or Equivalent (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)
SOC S100 Introduction to Sociology (3 cr.)
CMCL S121 Public Speaking (3 cr.)
Humanities Elective (3 cr.)
Free Elective (3 cr.)

Public Health Education

(Applied Health Science Major)

Four-year program leading to the degree Bachelor of Science in Applied Health Science with emphasis in public health education. A minimum of 124 credit hours is required for this program.

Public Health Education

Professional Health and Safety Courses (61cr.)

A minimum grade of C– is required for each course.

Public Health required courses (31 cr.)
HPER C366 Health Problems in the Community (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)
HPER C444 Field Experience in Public Health Education (4 cr.)
HPER H311 Human Diseases and Epidemiology (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER H464 Organization of Health Education (3 cr.)
HPER H494 Research and Evaluative Methods in Health and Safety (3 cr.)
Computer Literacy (CSCI A110 Introduction to Computers and Computing (3 cr.), BUS K201 The Computer in Business (3 cr.), HPER P200 Microcomputer Applications in Physical Education (3 cr.), HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.) , EDUC W200 Computers for Education: An Introduction (3 cr.)
EDUC R503 Applications of Instructional Media and Technology (3 cr.)
SPEA H316 Environmental Health (3 cr.)

Select related content areas (30 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 F317 Topical Seminar in Human Development/Family Studies (3 cr.) *or* HPER F341 Effects of Divorce on Children (3 cr.) *or* HPER F345 Parent/Child Relations (3 cr.) *or* HPER F355 Leading Family Process Discussion Groups (3 cr.)
HPER H160 First Aid (3 cr.)
HPER H163 Current Health Topics (3 cr.)
HPER H180 Stress Prevention and Management (3 cr.)
HPER H220 Death and Dying (3 cr.)
HPER H305 Women's Health (3 cr.)
HPER H315 Consumer Health (3 cr.)
HPER H310 Health Care in Minority Communities (3 cr.) *or* HPER H317 Topical Seminar in Health Education (3 cr.) *or* H324 Gerontology (3 cr.) *or* H326 AIDS and Other Sexually Transmitted Diseases (cr.) *or* H327 Practicum in College Death Education (3 cr.) *or* H340 Practicum in College Sex Education (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER H320 The Nature of Cancer (3 cr.)
HPER H418 The Nature of Addictive Disorders (3 cr.)
HPER H445 Travel Study (3 cr.)
HPER H460 Practicum in First Aid Instruction (3 cr.)
HPER N220 Basic Nutrition (3 cr.) *or* N231 Human Nutrition (3 cr.)
HPER S350 School and Community Safety (3 cr.)

Life and Physical Science (27 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)
BIOL L100 Humans and the Biological World (5 cr.)
BIOL M200 Microorganisms in Nature and Disease (3 cr.)
CHEM C101 Elementary Chemistry I *or* C105 Principles of Chemistry I (3 cr.)
MATH M118/A118 Finite Mathematics *or* M119 Calculus (3 cr.)
MATH/PSY K300 Statistical Techniques (3 cr.)

Social and Behavioral Science (12 cr.)

Select 12 credit hours from the following departments: Anthropology, Economics, Human Geography, History, Political Science, Psychology, Sociology

Humanities (15 cr.)

Required courses (9 cr.)
CMCL S121 Public Speaking (3 cr.)
ENG W131 Elementary Composition I (3 cr.) *or* ENG W170 Projects in Reading and Writing (3 cr.) (Minimum grade of C–)
ENG W231 Professional Writing Skills (3 cr.)

Select 6 credit hours from the following:
ENG W103 Introductory Creative Writing (3 cr.)
CMCL S122 Interpersonal Communication (3 cr.)
CMCL S223 Business and Professional Communication (3 cr.)
CMCL S228 Argumentation and Debate (3 cr.)
CMCL S229 Discussion and Group Methods (3 cr.)
CMCL S324 Persuasive Speaking (3 cr.)
JOUR J210 Visual Communication (3 cr.)
TEL T204 Living in the Information Age (also T201 Race, Ethnicity, and the Media (3 cr.), T202 Globalization of the Media (3 cr.), T203 Women in the Media (3 cr.)

Free Electives (9 cr.)
The Pass/Fail option is allowed.

Suggested Public Health Education Courses for the Freshman Year (33 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
BIOL L100 Humans and the Biological World (5 cr.)
CHEM C101 Elementary Chemistry (3 cr.)
or CHEM C105 Principles of Chemistry (3 cr.)
ENG W131 Elementary Composition (3 cr.) or equivalent
MATH M118 Finite Mathematics
or MATH M119 Brief Survey of Calculus (3 cr.)
POLS Y103 Introduction to American Politics (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)
PSY P102 Introductory Psychology II (3 cr.)
CMCL S121 Public Speaking (3 cr.)
CMCL S122 Interpersonal Communication (3 cr.)
SOC S101 Social Problems and Politics (3 cr.)
Computer Literacy (HPER P200, HPER R237, BUS K201, CSCI A110, EDUC W200) (3 cr.)

Occupational Safety

(Applied Health Science Major)

Four-year program leading to the degree Bachelor of Science in Applied Health Science with an option as specialist in occupational safety. A minimum of 124 credit hours is required for this program.

Specialist in Occupational Safety

Professional Health and Safety Courses (75 cr.)

A grade of C– or above required for each course.

Safety Courses (45 cr.)
HPER S101 Introduction to Safety Science (3 cr.)
HPER S151 Safety Codes and Standards (3 cr.)
HPER S201 Introduction to Industrial Hygiene (3 cr.)
HPER S202 Fundamentals of Fire Protection (3 cr.)
HPER S210 OSHA General Industry Standards (3 cr.)
HPER S212 Standards for Specific Industry (3 cr.)
HPER S230 Safety and Health Concepts in Business and Industry I (3 cr.)
HPER S231 Safety and Health Concepts in Business and Industry II (3 cr.)
HPER S251 Accident Investigations, Analysis, and Reporting (3 cr.)
HPER S332 Ergonomics and Human Factors (3 cr.)
HPER S345 Safety Program Management (3 cr.)
HPER S352 Systems Safety Analysis (3 cr.)
HPER S354 Hazardous Materials and Waste Control (3 cr.)
HPER S415 Safety Education and Training (3 cr.)
HPER S425 Safety Administration (3 cr.)

Professional Courses (30 cr.)
Computer Literacy (BUS K201 The Computer in Business (3 cr.), CSCI A110 Introduction to Computers and Computing (3 cr.), EDUC W200 Computers for Education: An Introduction (3 cr.), HPER P200 Microcomputer Applications in Physical Education (3 cr.), HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.)
SPEA H316 Introduction to Environmental Health (3 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER H363 Personal Health (3 cr.) or HPER C366 Health Problems in the Community (3 cr.)
HPER H460 Practicum in First Aid (3 cr.)
HPER H494 Research and Evaluative Methods in Health and Safety (3 cr.)
HPER S444 Field Experience in Occupational Safety (12 cr.)

Social and Behavior Science (9 cr.)
PSY P101 Introductory Psychology (3 cr.)
Social and Behavioral Science Electives (6 cr.)

Life and Physical Sciences (27-28 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
PHSL P215 Basic Human Physiology (5 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
or CHEM C105 Principles of Chemistry I (3 cr.)
CHEM C121 Elementary Chemistry Lab (2 cr.)
or CHEM C125 Experimental Chemistry I (2 cr.)
CHEM C102 Elementary Chemistry II (3 cr.)
or CHEM C106 Principles of Chemistry II (3 cr.)
CHEM C122 Elementary Chemistry Lab II (2 cr.)
or CHEM C126 Experimental Chemistry II (2 cr.)
MATH M118/A118 Finite Mathematics (3 cr.)
or MATH M119 Brief Survey of Calculus I (3 cr.)
PHYS P101 Physics in the Modern World (4 cr.)
or PHYS P201 General Physics I (5 cr.)

Humanities (9 cr.)
ENG W131 Elementary Composition I (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
CMCL S121 Public Speaking (3 cr.)

Free Electives (4 cr.)
May be taken Pass/Fail.

Suggested Occupational Safety Courses for the Freshman Year (32 cr.):
HPER S101 Introduction to Safety Science (3 cr.)
HPER S151 Safety Codes and Standards (3 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
CHEM C121 Elementary Chemistry Laboratory (2 cr.)
ENG W131 Elementary Composition (3 cr.)
or equivalent
MATH M118/A118 Finite Mathematics (3 cr.)
PHYS P101 Physics in the Modern World (5 cr.)
or PHYS P201 General Physics I (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)
CMCL S121 Public Speaking (3 cr.)
Computer Literacy (HPER P200, HPER R237, BUS K201, CSCI A110, EDUC W200) (3 cr.)

Human Development/Family Studies

(Applied Health Science Major)

Four-year degree leading to the degree Bachelor of Science in Applied Health Science with an emphasis in the areas of human development/family studies. A minimum of 124 credit hours is required for this program. There is a minimum 2.5 cumulative GPA entrance requirement.

Professional Core Courses (48 cr.)

A minimum grade of C– is required for each course.
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 F317 Topical Seminar in Human Development/Family Studies (3 cr.) *or* HPER F341 Effects of Divorce on Children (3 cr.) *or* HPER F355 Leading Family Process Discussion Groups (3 cr.) *or* HPER F454 Conceptual Frameworks in Human Development/Family Studies (3 cr.) *or* HPER F460 Grief in a Family Context (3 cr.)
HPER F345 Parent/Child Relations (3 cr.)
HPER F248 Human Development I—Infancy and Preschool (3 cr.)
HPER F449 Human Development II—Childhood and Adolescence (3 cr.)
HPER F352 Human Development III—Aging and the Family (3 cr.)
HPER F430 Professional Preparation in Human Development/Family Studies (3 cr.)
HPER F457 Stress in the Family (3 cr.)
HPER F442 Internship in Human Development and Family Studies (6 cr.)
HPER H494 Research and Evaluative Methods—Health and Safety (3 cr.)
HPER N220 Basic Nutrition (3 cr.)
or HPER N231 Human Nutrition (3 cr.)
or HPER N331 Life Cycle Nutrition (3 cr.)
Computer Literacy (BUS K201 The Computer in Business (3 cr.), CSCI A110 Introduction to Computers and Computing (3 cr.), HPER P200 Microcomputer Applications in Physical Education (3 cr.), HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.), EDUC W200 Computers for Education: An Introduction (3 cr.)
MATH/PSY K300 Statistical Techniques (3 cr.)

Professional Electives (24 cr.)

Of these, 15 credit hours must be at the 300-400 level; see advisor. A minimum grade of C– is required for each course.

Life and Physical Sciences (12 cr.)
BIOL L104 Introductory Biology Lectures (3 cr.)
CHEM C100 The World as Chemistry (CHEM C101 Elementary Chemistry I (3 cr.) *or* CHEM C105 Principles of Chemistry I (3 cr.)
MATH M118/A118 Finite Mathematics (3 cr.)
or MATH M119 Brief Survey of Calculus I (3 cr.)
Life and Physical Science elective (3 cr.)

Social and Behavioral Sciences (21 cr.)
PSY P101 Introductory Psychology I (3 cr.)
PSY P102 Introductory Psychology II (3 cr.)
PSY P324 Abnormal Psychology (3 cr.)
SOC S100 Introduction to Sociology (3 cr.)
SOC S101 Social Problems and Policies (3 cr.)
or one from S210 Social Organization (3 cr.) *or* S215 Social Change (3 cr.) *or* S230 Society and the Individual (3 cr.)
SOC S316 Sociology of the Family (3 cr.)

Social and Behavior Science elective to be taken from the following departments: Anthropology, Economics, Geography (Human and Regional), History, Political Science (3 cr.)

Humanities (12 cr.)

Oral and Written Expression (6 cr.)
ENG W131 Elementary Composition I (3 cr.)
or ENG W170 Projects in Reading and Writing (3 cr.) (C– or better)
CMCL S121 Public Speaking (3 cr.)

Select 3 credit hours from:
ENG W103 Introductory Creative Writing (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
ENG W143 Interdisciplinary Study of Expository Writing (1 cr.) (Only offered with appropriate course)

CMCL S122 Interpersonal Communication (3 cr.)
Humanities elective (3 cr.)

Free Electives (7 cr.)

The Pass/Fail option is allowed. See advisor for suggested electives.

Suggested Human Development/Family Studies Courses for the Freshman Year (30 cr.):

HPER F150 Introduction to Life Span Human Development (3 cr.)
or HPER F258 Marriage and Family Interaction (3 cr.)
BIOL L104 Introductory Biology Lecture (3 cr.)
CHEM C100 The World as Chemistry (3 cr.)
or CHEM C101 Elementary Chemistry I (3 cr.) *or* CHEM C105 Principles of Chemistry (3 cr.)
ENG W103 Introductory Creative Writing (3 cr.)
ENG W131 Elementary Composition (3 cr.)
or equivalent
MATH M118/A118 Finite Mathematics (3 cr.)
or MATH M119 Brief Survey of Calculus (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)
PSY P102 Introductory Psychology II (3 cr.)
SOC S100 Sociological Analysis of Society (3 cr.)
CMCL S121 Public Speaking (3 cr.)
Computer Literacy (HPER P200, HPER R237, BUS K201, CSCI A110, EDUC W200) (3 cr.)

Nutrition Science

(Applied Health Science Major)

Four-year program leading to the degree Bachelor of Science in Applied Health Science with emphasis in the area of nutrition science. There is a minimum 2.5 cumulative GPA entrance requirement.

Nutrition Core (24 cr.)

A minimum grade of C– is required for each course.
HPER N120 Introduction to Foods (3 cr.)
HPER N231 Human Nutrition (3 cr.)
HPER N320 Food Chemistry (3 cr.)
HPER N336 Community Nutrition (3 cr.)
HPER N430 Advanced Nutrition I (3 cr.)
HPER N431 Nutrition in Disease/Diet Therapy (3 cr.)
HPER N432 Advanced Nutrition II (3 cr.)
HPER N440 Research in Nutrition/Dietetics (3 cr.)

Life and Physical Science Core (43-44 cr.)

A minimum grade of C– is required for each course. Of note, CHEM C101 Elementary Chemistry I (3 cr.)/C121 Elementary Chemistry Laboratory I (2 cr.) and C102 Elementary Chemistry II (3 cr.)/C122 Elementary Chemistry Laboratory II (2 cr.) may be needed for review.
CHEM C105 Principles of Chemistry I (3 cr.)
CHEM C125 Experimental Chemistry I (2 cr.)
CHEM C106 Principles of Chemistry II (3 cr.)
CHEM C126 Experimental Chemistry II (2 cr.)
CHEM C341 Organic Chemistry Lectures I (3 cr.)
CHEM C342 Organic Chemistry Lectures II (3 cr.)
CHEM C343 Organic Chemistry Laboratory I (2 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)
BIOL L330 Biology of the Cell (3 cr.)
MATH M119 Brief Survey of Calculus I (3 cr.)
or MATH M211 Calculus I (4 cr.)
MATH/PSY K300 or K310 Statistical Techniques (3 cr.)
Computer Literacy (CSCI A110 Introduction to Computers and Computing (3 cr.), BUS K201 The Computer in Business (3 cr.), EDUC W200 Computers for Education: An Introduction (3 cr.) *[Students in pre-health professions must take CSCI A110.]*

Students must choose one of the following four courses:

BIOL Z466 Endocrinology (3 cr.)
BIOL L211 Molecular Biology (3 cr.)
CHEM C483 Biological Chemistry (3 cr.)
BIOL L321 Immunology (3 cr.)

Social and Behavioral Science Core (12 cr.)

SOC S100 Introduction to Sociology (3 cr.)
ECON E201 Introduction to Microeconomics (3 cr.)
PSY P101 Introduction to Psychology I (3 cr.)

Social and Behavioral Science elective (3 cr.)
Choose a course from the approved distribution courses for Social and Behavioral Science in the COAS Bulletin. Freshman seminars listed do NOT count.)

Humanities Core (11 cr.)

ENG W131 Elementary Composition I (3 cr.)
or ENG W170 Projects in Reading and Writing (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
or JOUR C327 Writing for Publication (3 cr.)
CMCL S121 Public Speaking (3 cr.) *or* CMCL S122 Interpersonal Communication (3 cr.)
or CMCL S223 Business and Professional Communication (3 cr.)
CLAS C209 Medical Terms from Greek and Latin (2 cr.)

Specialization Courses (19 cr.)

Students must take 19 credits from the following. A minimum grade of C– is required for each course.
HPER C366 Health Problems in the Community (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)

HPER F150 Introduction to Life-Span Human Development (3 cr.)
HPER N325 Food Chemistry Laboratory (2 cr.)
HPER N331 Life Cycle Nutrition (3 cr.)
PHYS P201 General Physics I (5 cr.)
PHYS P202 General Physics II (5 cr.)
BIOL L111 Introduction to Biology: Evolution and Diversity (3 cr.)
BIOL L112 Introduction to Biology: Biological Mechanisms (3 cr.) (May not substitute BIOL L100 Humans and the Biological World, BIOL L104 Introductory Biology Lectures, E112 Basic Biology by Examination, Q201 Biological Science for Elementary Teachers)
BIOL L113 Biology Laboratory (3 cr.)
BIOL M200 Microorganisms in Nature and Disease (3 cr.)
BIOL M215 Microorganisms Laboratory (1 cr.)

Recommended Electives (15 cr.) (Students need additional credits to fulfill the 124 total credit hour requirement. The Pass/Fail option is allowed for up to 6 credit hours except for those noted. *Pre-health professional (Medical/ Dental) students MAY NOT TAKE any of their 90 total required credit hours in the College of Arts and Sciences on a Pass/Fail basis.* The free electives below are suggested, not required. Pre-health professional students must take all elective credit hours from the College of Arts and Sciences. Up to 4 credit hours of HPER "E" classes may count toward the 124 credit hour total.

HPER H363 Personal Health (3 cr.)
HPER H494 Research and Evaluative Methods in Health and Safety (3 cr.)
HPER N433 Diet Therapy Application *(No Pass/Fail option unless approved)* (2 cr.)
HPER N441 Readings in Nutrition/Dietetics *(No Pass/Fail option unless approved)* (1-3 cr.)
BIOL L311 Genetics (3 cr.)
BIOL L302 Topics in Human Biology (3 cr.)
PSY P102 Introductory Psychology II (3 cr.)
PSY P211 Methods of Experimental Psychology (3 cr.)
PSY P325 Psychology of Learning (3 cr.)
PSY P327 Psychology of Motivation (3 cr.)
PSY P335 Cognitive Psychology (3 cr.)

Suggested Nutrition Science Courses for the Freshman Year (30 cr.):
HPER N120 Introduction to Foods (3 cr.)
HPER N231 Human Nutrition (3 cr.)
CHEM C105 Principles of Chemistry (3 cr.)
CHEM C106 Quantitative Chemistry (3 cr.)
CHEM C125 Experimental Chemistry I (2 cr.)
CHEM C126 Experimental Chemistry II (2 cr.)
CLAS C209 Medical Terms from Greek and Latin (2 cr.)
ENG W131 English Composition (3 cr.)
MATH M119 Brief Survey of Calculus I (3 cr.)
or M211 Calculus I (4 cr.)
PSY P101 Introductory Psychology I (3 cr.)
Computer Literacy (HPER P200, HPER R237, BUS K201, CSCI A110, EDUC W200) (3 cr.)

Dietetics

(Applied Health Science Major)

Four-year program leading to the degree Bachelor of Science in Applied Health Science with an emphasis in dietetics. A minimum of 124 credit hours is required for this program. There is a minimum 2.5 cumulative grade point average entrance requirement. The dietetic program is currently granted Didactic Program in Dietetics (DPD) approval by the American Dietetic Association Council on Education Division of Education Accreditation/ Approval, a special accrediting body recognized by the Council on Postsecondary Accreditation and the U.S. Department of Education.

Professional Core Courses (71 cr.)

A minimum grade of C– is required for each course.
HPER N120 Introduction to Foods (3 cr.)
HPER N231 Human Nutrition (3 cr.)
HPER N320 Food Chemistry (3 cr.)
HPER N321 Quantity Food Purchasing and Production (see advisor for scheduling) (4 cr.)
HPER N322 Food Service Systems (2 cr.) [odd years]
HPER N325 Food Chemistry Laboratory (2 cr.)
HPER N331 Life Cycle Nutrition (3 cr.)
HPER N336 Community Nutrition (3 cr.)
HPER N430 Advanced Nutrition I (3 cr.)
HPER N431 Nutrition in Disease—Diet Therapy (3 cr.)
HPER N433 Diet Therapy Application (2 cr.)
HPER N432 Advanced Nutrition II (3 cr.)
HPER N441 Readings: Issues in Nutrition/ Dietetics (1 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)
BIOL L330 Biology of the Cell (3 cr.)
BIOL M200 Microorganisms in Nature and Disease (3 cr.)
Computer Literacy (CSCI A110 Introduction to Computers and Computing (3 cr.), BUS K201 The Computer in Business (3 cr.), HPER P200 Microcomputer Applications in Physical Education (3 cr.), HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.), EDUC W200 Computers for Education: An Introduction (3 cr.)
CLAS C209 Medical Terms from Greek and Latin (2 cr.)

SPEA V373 Personnel Management (or V366) (3 cr.)
HPER H494 Research and Evaluative Methods in Health and Safety (3 cr.)
HPER C416 Introduction to Health Counseling (3 cr.)

Science Group: Must choose two of the following (total 6 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)
BIOL L112 Biological Mechanisms (May not substitute L100, L104, E112, Q201) (3 cr.)
BIOL L211 Molecular Biology (3 cr.)
BIOL Z466 Endocrinology (3 cr.)
CHEM C483 Biological Chemistry (3 cr.)

Life and Physical Science (19 cr.)

A minimum grade of C– is required for each course. *Of note, CHEM C101 and C121 may be needed for review based upon background.*
CHEM C105 Principles of Chemistry I (3 cr.)
CHEM C125 Experimental Chemistry I (2 cr.)
CHEM C106 Principles of Chemistry II (3 cr.)
CHEM C126 Experimental Chemistry II (2 cr.)
CHEM C341 Organic Chemistry Lectures I (3 cr.)
MATH M118/A118 Finite Mathematics (3 cr.)
MATH/PSY K300 Statistical Techniques (3 cr.)

Social and Behavioral Science (15 cr.)
SOC S100 Introduction to Sociology (3 cr.)
ECON E201 Introduction to Microeconomics (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)

Plus Option 1:
PSY P102 Introductory Psychology II (3 cr.)
PSY P325 Psychology of Learning (P335) (3 cr.)

or Option 2:
EDUC P254 or EDUC P255 Educational Psychology (3 cr.)

Elective choice (Must be a Social and Behavioral course) (3 cr.)

Humanities (9 cr.)
ENG W131 Elementary Composition I (3 cr.) *or* ENG W170 Projects in Reading and Writing (a minimum grade of C–) (3 cr.)
ENG W231 Professional Writing Skills (3) *or* JOUR C327 Writing for Publication (3 cr.)
CMCL S121 Public Speaking (3 cr.) *or* CMCL S223 Business and Professional Speaking (3 cr.)

Free Electives (11 cr.)

The Pass/Fail option is allowed, except for the following elective options:
HPER C366 Health Problems in the Community (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER N440 Research in Nutrition/Dietetics (1-3 cr.)
HPER N444 Field Experience in Nutrition/Dietetics (1-3 cr.)

Suggested Dietetics Courses for the Freshman Year (30 cr.):
HPER N120 Introduction to Foods (3 cr.)
CHEM C105 Principles of Chemistry (3 cr.)
CHEM C106 Quantitative Chemistry (3 cr.)
CHEM C125 Experimental Chemistry I (2 cr.)
CHEM C126 Experimental Chemistry II (2 cr.)
CLAS C209 Medical Terminology (2 cr.)
ENG W131 Elementary Composition (3 cr.)
MATH M118 Finite Mathematics (3 cr.) *or* A118 Finite Mathematics for Social and Biological Sciences (3 cr.)
PSY 101 Introductory Psychology I (3 cr.)
SOC S100 Introduction to Sociology (3 cr.)
Computer Literacy (HPER P200 or R237, BUS K201, CSCI A110, EDUC W200) (3 cr.)

Applied Health Science Minors

Health and Safety—Teaching Minor (24 cr.)

The following courses are required to meet teaching certification in health and safety:

Required courses (18 cr.)
HPER F255 Human Sexuality (3 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.)
EDUC M458 Methods of Teaching Health and Safety (3 cr.)
EDUC M403 Laboratory Field Experience—Health and Safety (corequisite with M458) (0 cr.)

Select two of the following (6 cr.)
HPER F258 Marriage and Family Interaction (3 cr.)
HPER F317 Topical Seminar in Human Development/Family Studies (3 cr.)
HPER F345 Parent-Child Relations (3 cr.)
HPER F449 Childhood and Adolescence (3 cr.)
HPER H163 Topics in Health (3 cr.)
HPER H180 Stress Prevention and Management (3 cr.)
HPER H220 Death and Dying (3 cr.)
HPER H310 Health Care in Minority Communities (3 cr.)
HPER H317 Topical Seminar in Health Studies (3 cr.)
HPER H320 The Nature of Cancer (3 cr.)
HPER H324 Gerontology: Multidisciplinary Perspectives (3 cr.)
HPER H326 AIDS and Other Sexually Transmitted Diseases (3 cr.)

HPER H327 Practicum in College Death Education (3 cr.)
HPER H340 Practicum in College Sex Education (3 cr.)
HPER N220 Basic Nutrition
or HPER N231 Human Nutrition (3 cr.)
HPER S350 School and Community Safety (3 cr.)

Dietetics/Nutrition Science (15 cr.)

Required (6 cr.)
HPER N120 Introduction to Foods (3 cr.)
HPER N220 Basic Nutrition (3 cr.)
or HPER N231 Human Nutrition (3 cr.)

Select 3 of the following 5 courses (9 cr.)
HPER N320 Food Chemistry (3 cr.)
HPER N331 Life Cycle Nutrition (3 cr.)
HPER N336 Community Nutrition (3 cr.)
HPER N430 Advanced Nutrition I (3 cr.)
HPER N431 Nutrition in Disease-Diet Therapy (3 cr.)

Human Development/Family Studies (15 cr.)
Required (9 cr.):

A minimum grade of C– is required; no Pass/Fail option is allowed.)

Required courses: (9 cr.)
HPER F150 Introduction to Life Span Development (3 cr.)
HPER F255 Human Sexuality (3 cr.)
HPER F258 Marriage and Family Interaction (3 cr.)

Elective courses: Select two courses (6 cr.)
HPER F248 Human Development I—Infancy and Preschool (3 cr.)
HPER F317 Topical Seminar in Human Development/Family Studies (3 cr.)
or HPER F355 Leading Family Process Discussion Groups (3 cr.)
HPER F341 Effects of Divorce on Children (3 cr.)
HPER F345 Parent-Child Interaction (3 cr.)
HPER F352 Human Development III—Aging and the Family (3 cr.)
HPER F449 Human Development II—Childhood and Adolescence (3 cr.)
HPER F453 Family Life Education (3 cr.)
HPER F454 Conceptual Frameworks in Human Development/Family Studies (3 cr.)
HPER F457 Stress in the Family (3 cr.)
HPER F458 Family Law and Policy (3 cr.)
HPER F460 Grief in a Family Context (3 cr.)

Public Health Education Minor (15 credit hours)

A minimum grade of C– is required for each course.

Required (9 cr.)
HPER C366 Health Problems in the Community (3 cr.)
HPER C403 Techniques of Public Health Education (3 cr.)

Choose one:
HPER H311 Human Diseases and Epidemiology (3 cr.) *or* HPER H363 Personal Health (3 cr.)

Select two of the following electives (6 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 F317 Topical Seminar in Human Development/Family Studies (3 cr.)
or HPER F341 Effects of Divorce on Children (3 cr.) *or* HPER F345 Parent/Child Relations (3 cr.) *or* HPER F355 Leading Family Process Discussion Groups (3 cr.)
HPER H163 Current Health Topics (3 cr.)
HPER H180 Stress Prevention and Management (3 cr.)
HPER H220 Death and Dying (3 cr.)
HPER H305 Women's Health (3 cr.)
HPER H311 Human Diseases and Epidemiology (3 cr.)
HPER H315 Consumer Health (3 cr.)
HPER H310 Health Care in Minority Communities (3 cr.)
or HPER H317 Topical Seminar in Health Education (3 cr.) *or* H324 Gerontology (3 cr.) *or* H326 AIDS and Other Sexually Transmitted Diseases (3 cr.) *or* H327 Practicum in College Death Education (3 cr.) *or* H340 Practicum in College Sex Education (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER H320 The Nature of Cancer (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER H418 The Nature of Addictive Disorders (3 cr.)
HPER H445 Travel Study (3 cr.)
HPER H464 Organization of Health Education (3 cr.)
HPER H494 Research and Evaluative Methods in Health and Safety (3 cr.)
HPER N220 Basic Nutrition (3 cr.) or N231 Human Nutrition (3 cr.)
HPER N331 Life Cycle Nutrition (3 cr.)
HPER N336 Community Nutrition (3 cr.)
HPER S101 Introduction to Safety Science (3 cr.)

Kinesiology Degree Programs

Students may obtain a Bachelor of Science in Kinesiology degree by completing programs in athletic training, sport communication, sport marketing and management, or exercise science. These programs do not lead to teacher certification.

Teacher Certification Programs Students may obtain a Bachelor of Science in Kinesiology

degree with teaching certification for K-12 all-grade. (See the School of Education Undergraduate Program Bulletin for required courses in the area of professional education.)

Bachelor of Science in Kinesiology with Teacher Preparation

All-Grade Teaching License The All-Grade Teaching License Program allows a student to obtain a Bachelor of Science in Kinesiology degree with license to teach grades K-12. Students are encouraged to pursue a minor teaching area or an emphasis area within physical education. Admission is limited. For admission requirements, see the "Admission" section in the front of this bulletin.

Course Requirements for the All-Grade License Program

Required Core:

Physical Education Core (49 cr.)
HPER P140 Foundations of Physical Education (3 cr.)
HPER P141 Foundations of Human Movement (2 cr.)
HPER P200 Microcomputer Application in Physical Education (3 cr.)
HPER P205 Structural Kinesiology (3 cr.)
HPER P216 Concepts of Physical Fitness (3 cr.)
HPER P224 Teaching Dance Activities (2 cr.)
HPER P280 Athletic Training and Emergency Care (2 cr.)
HPER P316 Theories of Advanced Conditioning (2 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P490 Motor Development and Learning (3 cr.)
HPER P222 Teaching of Developmental Gymnastics (2 cr.)
or HPER P223 Teaching Stunts, Tumbling and Apparatus (2 cr.)

Seven credit hours of HPER electives prefix A, P, D, K

Must be admitted to the PETE program to take the following:
HPER P203 Teaching Practicum in Physical Education (1 cr.)
HPER P214 Basic Methods Teaching Physical Education (3 cr.)
HPER P313 Tools of Learning (1 cr.)
HPER P323 Teaching Individual Dual Activities (2 cr.)
HPER P325 Teaching Team Activities (2 cr.)
HPER P414 Professional Seminar in Physical Education (2 cr.)

Professional Education Requirements (29 cr.)
EDUC P254 Educational Psychology All-Grade (3 cr.)
EDUC M201 Laboratory Field Experience (1 cr.)
EDUC M300 Teaching in a Pluralistic Society (3 cr.)

Student must pass PPST Test and be admitted to the Teacher Education Program.
EDUC H340 Education and American Culture (3 cr.)
EDUC M314 General Methods (3 cr.)
EDUC M303 Field Experience (0 cr.)
EDUC M464 Methods of Teaching Reading (3 cr.)
EDUC M456 Methods of Teaching Physical Education (3 cr.)
EDUC M403 Laboratory Field Experience (0 cr.)
EDUC M482 Student Teaching (10 cr.)

General Education Requirements (41 cr.)

Written Expression—2 credit hours minimum
ENG W131 English Composition I (3 cr.)
or ENG W170 Project in Reading and Writing (3 cr.)
AFRO A141-A142 Introduction to Writing and Black Literature (4-4 cr.)
ENG L141-L142 Introduction to Writing and Literature (4-4 cr.)
ENG W143 Expository Writing (1 cr.)

Oral Expression
CMCL S121 Public Speaking (3 cr.)

Sufficient additional oral and written expression courses chosen from above or below to total 9 credits:
ENG W103 Introduction to Creative Writing (3 cr.)
ENG W203 Creative Writing (3 cr.)
ENG W270 Argumentative Writing (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
ENG W301 Writing Fiction (3 cr.)
ENG W350 Advanced Expository Writing (3 cr.)
JOUR J200 Writing for Mass Media (3 cr.)
CMCL S223 Business and Professional Communication (3 cr.)
CMCL S324 Persuasion (3 cr.)
JOUR C327 Writing for Publication (3 cr.)
CMCL S122 Interpersonal Communication (3 cr.)

Humanities (9 cr.)

Courses are to be selected *from at least two* of the following departments (English and Communication and Culture are considered one department)

Afro-American Studies
Central Eurasian Studies
Classical Studies
Communication and Culture
Comparative Literature
East Asian Languages and Cultures
English
Fine Arts
Folklore
French and Italian

Germanic Studies
Health, Physical Education, and Recreation—HPER R160 only
Journalism
Linguistics
Music
Near Eastern Languages and Cultures
Philosophy
Religious Studies
Slavic Languages and Literatures
Spanish and Portuguese
Telecommunications
Theatre and Drama

Life and Physical Science (11-14 cr.)

Required courses:
MATH M025 Pre-calculus Math (0 cr.) (Minimum Competency) *or* a minimum SAT math score of 500 *or* a minimum ACT math score of 23 *or* MATH M118 Finite Math (3 cr.) *or* MATH M119 Calculus (3 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)
HPER P409 Exercise Physiology (3 cr.)

Social and Behavioral Science (9 cr.)

Select a minimum of 9 credits from courses in at least *three* of the following departments:

Anthropology
Economics
History
Non-Physical Geography
Political Science
Psychology
Sociology

Choose free electives to complete 124 credit hours.

A course may be taken using the Pass/Fail option (one per semester) in the free electives only.

Suggested Kinesiology Major Courses for the Freshman Year (Teacher Education)
First Semester (17 cr.)
HPER P140 Foundations of Physical Education (3 cr.)
HPER P141 Foundations of Human Movement (2 cr.)
CMCL S121 Public Speaking (3 cr.)
Humanities Course in Written Expression (3 cr.)
Social and Behavioral Sciences Elective (3 cr.)
HPER P224 Teaching Dance Activities
Second Semester (17 cr.)
HPER P216 Concepts of Physical Fitness
HPER P205 Structural Kinesiology (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
Humanities Course in Written Expression (3 cr.)
Humanities Elective (3 cr.)
Take teacher education admission test.

Athletic Training—Teacher Preparation

(Kinesiology Major)

Five-year program with a concentration in athletic training leading to an all-grade teaching license and the degree Bachelor of Science in Kinesiology. This program meets the requirements of the National Athletic Trainer's Association. Admission to the program is limited. For admission requirements, see the "Admission" section in the front of this bulletin.

Physical Education Teacher Preparation Core
HPER P140 Foundations of Physical Education (3 cr.)
HPER P141 Fundamentals of Human Movement (2 cr.)
HPER P200 Microcomputer Applications in Physical Education (3 cr.)
HPER P216 Concepts of Physical Fitness (3 cr.)
HPER P222 Teaching Developmental Gymnastics (2 cr.) *or* HPER P223 Teaching Stunts, Tumbling and Apparatus (2 cr.)
HPER P224 Teaching Dance Activities (2 cr.)
HPER P280 Athletic Training Emergency Care (2 cr.)
HPER P316 Theories of Advanced Conditioning (2 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)
HPER P490 Motor Development and Learning (3 cr.)

The student must be admitted to the PETE program to take the following:
HPER P203 Teaching Practicum in Physical Education (1 cr.)
HPER P214 Basic Methods in Teaching Physical Education (3 cr.)
HPER P313 Tools of Learning (1 cr.)
HPER P323 Teaching Individual Dual Activities (2 cr.)
HPER P325 Teaching Team Activities (2 cr.)
HPER P414 Professional Seminar in Physical Education (2 cr.)

Athletic Training Core
HPER N231 Human Nutrition (3 cr.)
HPER A281 Recognition and Evaluation of Athletic Injuries (3 cr.)
HPER A282 Strapping and Bandaging Techniques in Athletic Training (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER A381 Lab Practice in Athletic Training I (2 cr.)
HPER A382 Lab Practice in Athletic Training II (2 cr.)

HPER A383 Principles and Techniques of Therapeutic Modalities (3 cr.)
HPER A384 Principles and Techniques of Therapeutic Exercise (3 cr.)
HPER A386 Emergency Management of Athletic Injury and Illness (3 cr.)
HPER H317 Emergency Medical Technician Lab (1 cr.)
HPER H401 Emergency Medical Technician (3 cr.)
HPER A481 Lab Practice in Athletic Training III (2 cr.)
HPER A490 Organization and Administration of Athletic Training (3 cr.)
HPER A491 Senior Seminar in Athletic Training (1 cr.)
HPER H160 First Aid (3 cr.)
HPER H317 Introduction to Health Statistics (3 cr.) *or* HPER R390 Statistical Applications in Leisure Studies (3 cr.)

Professional Education Requirements
EDUC P254 Educational Psychology All-Grade (3 cr.)
EDUC M201 Laboratory/ Field Experience (1 cr.)
EDUC M300 Teaching in a Pluralistic Society (3 cr.)
The student must pass the PPST Test and be admitted to the teacher education program.
EDUC H340 Education and American Culture (3 cr.)
EDUC M303 Field Experience (0 cr.)
EDUC M314 General Methods (3 cr.)
EDUC M403 Laboratory/ Field Experience (0 cr.)
EDUC M456 Methods of Teaching Physical Education (3 cr.)
EDUC M464 Methods of Teaching Reading (3 cr.)
EDUC M482 Student Teaching All-Grade (10 cr.)

General Education

Oral and Written Expression (9 cr.)

Written Expression— a minimum of 2 credits is required
ENG W131 English Composition I (3 cr.) *or* ENG W170 Project in Reading and Writing (3 cr.)
AFRO A141-142 Introduction to Writing and Black Literature (4-4 cr.)
ENG L141-142 Introduction to Writing and Literature (4-4 cr.)
ENG W143 Expository Writing (1 cr.)

Oral Expression
CMCL S121 Public Speaking (3 cr.)

Choose additional oral and written expression courses from above or below to total 9 credits:
ENG W103 Introduction to Creative Writing (3 cr.)
ENG W203 Creative Writing (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
ENG W270 Argumentative Writing (3 cr.)
ENG W301 Writing Fiction (3 cr.)
ENG W350 Advanced Expository Writing (3 cr.)
JOUR J200 Writing for Mass Media (3 cr.)
CMCL S223 Business and Professional Communication (3 cr.)
CMCL S324 Persuasion (3 cr.)
JOUR C327 Writing for Publication (3 cr.)
CMCL S122 Interpersonal Communication (3 cr.)

Humanities (9 cr.)

Courses are to be selected *from at least two* of the following departments (ENG & CMCL are considered one department.)

Afro-American Studies
Central Eurasian Studies
Classical Studies
Communication and Culture
Comparative Literature
East Asian Languages and Cultures
English
Fine Arts
Folklore
French and Italian
Germanic Languages
Health, Physical Education, and Recreation— HPER R160 only
Journalism
Linguistics
Music
Near Eastern Languages and Cultures
Philosophy
Religious Studies
Slavic Languages and Literatures
Spanish and Portugese
Telecommunications
Theatre and Drama

Life and Physical Science (23-25 cr.)

Required:
ANAT A215 Basic Human Anatomy (5 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)
PHYS P201 General Physics I (5 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
CHEM C121 Elementary Chemistry Lab I (2 cr.)

Select at least one course from the following:
MATH M119 Brief Survey of Calculus I (3 cr.)
MATH M211 Calculus I (4 cr.)
MATH M120 Brief Survey of Calculus II (3 cr.)
MATH M212 Calculus II (5 cr.)
CHEM C102 Elementary Chemistry II (3 cr.) *and* CHEM C122 Elementary Chemistry Lab II (2 cr.)
PHYS P202 General Physics II (5 cr.)
BIOL L104 Introduction Biology Lectures (3 cr.)

Social and Behavioral Science (9 cr.)
PSY P101 Introduction to Psychology I (3 cr.)

Select at least two courses from the following:
Anthropology
Economics
History
Non-Physical Geography
Political Science
Sociology

Suggested Courses for the Freshman Year (Athletic Training: Teaching Option)
First Semester (15 cr.)
HPER H160 First Aid (3 cr.)
HPER P200 Microcomputer in Physical Education (3 cr.)
ENG W131 Elementary Composition I (3 cr.)
or ENG W170 Projects in Reading and Writing (3 cr.)
CMCL S121 Public Speaking (3 cr.)
Social Science Requirement (3 cr.)

Second Semester (15 cr.)
HPER P140 Foundations of Physical Education (3 cr.)
HPER P141 Fundamentals of Human Movement (2 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)

Athletic Training—Nonteaching Option

(Kinesiology Major)

Four-year program with an emphasis in athletic training leading to the degree Bachelor of Science in Kinesiology. This program meets the requirements of the National Athletic Trainer's Association. Admission to the program is limited. For admission requirements, see the "Admission" section in the front of this bulletin.

Required Skill/Theory Courses (68 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER N231 Human Nutrition (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER A281 Recognition and Evaluation of Athletic Injuries (3 cr.)
HPER A282 Strapping and Bandaging Techniques in Athletic Training (3 cr.)
HPER P216 Current Concepts in Physical Fitness (3 cr.)
HPER P316 Foundations of Conditioning and Self-Testing Activities (2 cr.)
HPER H363 Personal Health (3 cr.)
HPER A381 Laboratory Practice in Athletic Training I (2 cr.)
HPER A382 Laboratory Practice in Athletic Training II (2 cr.)
HPER A383 Principles and Techniques of Therapeutic Modalities (3 cr.)
HPER A384 Principles and Techniques of Therapeutic Exercise (3 cr.)
HPER A386 Emergency Management of Athletic Injuries/Illness (3 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P405 Introduction to Sport Psychology (3 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER H317 Emergency Medical Technician Laboratory (1 cr.)
HPER H401 Emergency Medical Technician (3 cr.)
HPER A481 Laboratory Practice in Athletic Training III (2 cr.)
HPER A490 Organization and Administration of Athletic Training (2 cr.)
HPER P490 Motor Development of Pre-School and Elementary School Children (3 cr.)
HPER A491 Senior Seminar in Athletic Training (1 cr.)

Select one of the following courses:
CSCI A110 Introduction to Computing (3 cr.)
HPER P200 Microcomputer Applications in Physical Education (3 cr.)
HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.)
BUS K201 The Computer in Business (3 cr.)

General-Education Requirements (55 cr.)
Humanities (12 cr.)
Required:
CMCL S121 Public Speaking (3 cr.)
ENG W131 English Composition I (3 cr.)

Select two (2) of the following:
ENG W231 Professional Writing (3 cr.)
ENG W203 Creative Writing (3 cr.)
ENG W350 Advanced Expository Writing (3 cr.)
JOUR C327 Writing for Publication (3 cr.)

Social Sciences (12 cr.)
Required:
SOC S100 Sociological Analysis of Society (3 cr.)
PSY K300 Statistical Techniques (3 cr.)
PSY P101 Introduction to Psychology I (3 cr.)

Select one of the following:
SOC S101 Social Problems and Policies (3 cr.)
SOC S210 Social Organization (3 cr.)
SOC S320 Deviant Behavior and Social Control (3 cr.)
POLS Y103 Introduction to American Politics (3 cr.)

Life and Physical Sciences (25 cr.)
Required:
ANAT A215 Basic Human Anatomy (5 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)

PHYS P201 General Physics I (5 cr.)
CHEM C101 Elementary Chemistry I (3 cr.)
CHEM C121 Elementary Chemistry Laboratory I (2 cr.)

Select five hours from the following:
MATH M119 Brief Survey of Calculus I (3 cr.) *and* MATH M120 Brief Survey of Calculus II (3 cr.) *or* MATH M211 Calculus I (4 cr.)
CHEM C102 Elementary Chemistry II (3 cr.) *and* CHEM C122 Elementary Chemistry Laboratory II (2 cr.) *or* PHYS P202 General Physics II (5 cr.)

General Education Electives (6 cr.)

Choose general-education electives to total 6 credit hours from the recommended electives below:
HPER R160 Recreation and Leisure (3 cr.)
CLAS C209 Medical Terms from Greek and Latin (2 cr.)
ENG W103 Introduction to Creative Writing (3 cr.)
ENG W301 Writing Fiction (3 cr.)
ENG L141 Introduction to Writing and Literature (4 cr.)
ENG L142 Introduction to Writing and Literature (4 cr.)
AFRO A141 Introduction to Writing and the Study of Black Literature I (4 cr.)
AFRO A142 Introduction to Writing and the Study of Black Literature II (4 cr.)
CMCL S122 Interpersonal Communications (2 cr.)

Choose free electives to complete the required 124 credit hours.

Suggested Courses for the Freshman Year (Athletic Training: Nonteaching Option)
First Semester (16 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
CHEM C101 Elementary Chemistry (3 cr.)
CHEM C121 Elementary Chemistry Laboratory (2 cr.)
ENG W131 Elementary Composition (3 cr.) *or* W170 Projects in Reading and Writing (3 cr.)
CMCL S121 Public Speaking (3 cr.)
Second Semester (14 cr.)
HPER P200 Microcomputer Application in Physical Education (3 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
SOC S100 Sociological Analysis of Society (3 cr.)

Exercise Science Emphasis
(Kinesiology Major)

The program in exercise 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.

Kinesiology Requirements (38-41 cr.)

A. Required:
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P216 Current Concepts in Physical Fitness (3 cr.)
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P405 Introduction to Sport Psychology (3 cr.)
HPER P409 Basic Physiology of Exercise (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER N231 Human Nutrition (3 cr.)

B. Select one of the following:
HPER P211 Introduction to Sport Management (3 cr.)
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P334 Cultural Diversity in American Sport (3 cr.)
HPER P392 Sport in American Society (3 cr.)
HPER P490 Motor Development and Learning (3 cr.)
HPER H324 Gerontology: Multidisciplinary Perspectives (3 cr.)

C. Select two of the following:
HPER P217 Methods of Fitness Exercise Instruction (3 cr.)
HPER P316 Theories of Advanced Conditioning (2 cr.)
HPER P317 Strength Training (2 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P416 Corporate Fitness (3 cr.)
HPER P419 Fitness Testing and Programming (3 cr.)
HPER P420 Exercise Leadership and Instruction (3 cr.)

D. Select one of the following or one course from sections B or C above or a 3 credit exercise science elective:
HPER P448 Internship in Exercise Science (3 cr.)
HPER P492 Laboratory Assisting or Field Experience in Sport Science (3 cr.)
HPER P499 Research in Physical Education (3 cr.)

E. Select one of the following:
CSCI A110 Introduction to Computers and Computing (3 cr.)

CSCI A201 Introduction to Programming I (4 cr.)
CSCI C211 Introduction to Computer Science (4 cr.)
BUS K201 The Computer in Business (3 cr.)
HPER P200 Microcomputer Applications in Physical Education (3 cr.)
HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.)

F. Select two credits from any of the following:
HPER P223 Teaching Stunts, Tumbling, and Apparatus (2 cr.)
HPER P224 Teaching of Dance Activities (2 cr.)

Two credits of a HPER "E" prefix class. (E119 does not fulfill this requirement.)

One to three credits of a HPER "D" prefix class.

General-Education Requirements (48-57 cr.)

Oral and Written Communications (12 cr.)

Required:
CMCL S121 Public Speaking (3 cr.)

Select 9 credit hours from:
ENG W131 English Composition I *or* ENG W170 Projects in Read and Writing (a minimum grade of C– is required) (3 cr.)
ENG W231 Professional Writing (3 cr.)
ENG W270 Argumentative Writing (3 cr.)
ENG W119 Critical Review Writing (1 cr.)
ENG W143 Interdisciplinary Writing (1 cr.)
ENG W103 Introduction to Creative Writing (3 cr.)
ENG W203 Creative Writing (3 cr.)
ENG W240 Community Service Writing (3 cr.)
ENG W350 Advanced Expository Writing (3 cr.)
CMCL S323 Speech Composition (3 cr.)
TEL R211 Broadcast Writing (3 cr.)

Social Sciences (12 cr.)

Required:
ANTH A105 Human Origins and Prehistory (3 cr.) *or* ANTH E105 Culture and Society (3 cr.)
PSY P101 Introduction to Psychology I (3 cr.)
PSY K300 or PSY K310 Statistical Techniques (3 cr.)

Select 3 credits from:
SOC S100 Sociological Analysis of Society (3 cr.)
SOC S101 Social Programs and Policies (3 cr.)

Life and Physical Sciences (24-33 cr.)

Required:
ANAT A215 Basic Human Anatomy (5 cr.) *or* HPER P205 Structural Kinesiology (3 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.) *and* PHYS P201 General Physics (5 cr.)

Select two of the following:
MATH M118 Finite Mathematics (3 cr.)
MATH M119 Brief Survey of Calculus I (3 cr.) *or* MATH M211 Calculus I (4 cr.)
MATH M120 Brief Survey of Calculus II (3 cr.) *or* MATH M212 Calculus II (4 cr.)
Select either CHEM C105 Principles of Chemistry I (3 cr.) *and* CHEM C125 Experimental Chemistry I (3 cr.) *or* take all of the following chemistry courses:
CHEM C101 Elementary Chemistry I (3 cr.)
CHEM C121 Elementary Chemistry Laboratory I (2 cr.)
CHEM C102 Elementary Chemistry II (3 cr.)
CHEM C122 Elementary Chemistry Laboratory II (2 cr.)

Exercise Science Electives (16 cr.)

A maximum of two courses may be taken Pass/Fail.
ANAT A464 Histology (5 cr.)
ANTH A303 Evolution and Prehistory (3 cr.)
ANTH B200 Bioanthropology (3 cr.)
ANTH B301 Bioanthropology Laboratory (3 cr.)
ANTH B480 Human Growth and Development (3 cr.)
BIOL L100 Humans and the Biological World (5 cr.) *or* BIOL L104 Introductory Biology Lectures (3 cr.) *or* BIOL L112 Introduction to Biology: Biological Mechanisms (3 cr.)
BIOL L111 Introduction to Biology: Evolution and Diversity (3 cr.)
BIOL L113 Biology Laboratory (3 cr.)
BIOL L302 Topics in Human Biology (3 cr.)
BIOL L330 Biology of the Cell (3 cr.)
BIOL L311 Genetics and Development (3 cr.)
BIOL L312 Cell Biology (3 cr.)
BIOL L313 Cell Biology Laboratory (3 cr.)
CHEM C106 Principles of Chemistry II (3 cr.)
CHEM C126 Experimental Chemistry II (2 cr.)
CHEM C341 Organic Chemistry I (3 cr.)
CHEM C342 Organic Chemistry II (3 cr.)
CHEM C343 Organic Chemistry Laboratory I (2 cr.)
CHEM C344 Organic Chemistry Laboratory II (2 cr.)
CHEM C360 Elementary 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.)
CSCI A111 Survey of Computers and Computing (1.5 cr.)
CSCI A112 Programming Concepts (1.5 cr.)
CSCI A115 Using the World Wide Web (1.5 cr.)
CSCI A202 Introduction to Programming II (4 cr.)
CSCI C212 Introduction to Software Systems (4 cr.)

CSCI C241 Discrete Structures for Computer Science (3 cr.)
CSCI A304 Intro C++ Programming (2 cr.)
CSCI C311 Programming Languages (4 cr.)
CSCI C335 Computer Structures (4 cr.)
CSCI C343 Data Structures (4 cr.)
HPSC X200 Introduction to Scientific Reasoning (3 cr.)
MATH M301 Applied Linear Algebra (3 cr.)
MATH M303 Linear Algebra for Undergraduates (3 cr.)
MATH M311 Calculus III (4 cr.)
MATH M312 Calculus IV (3 cr.)
PHIL P105 Thinking and Reasoning (3 cr.)
PHIL P140 Elementary Ethics (3 cr.)
PHIL P150 Elementary Logic (3 cr.)
PHIL P250 Introduction to Symbolic Logic (3 cr.)
PHIL P251 Intermediate Symbolic Logic (3 cr.)
PHYS P202 General Physics 2 (5 cr.)
PHYS P302 Elementary Electronics (2 cr.)
PHSL P431 Human Physiology (4 cr.)
PSY P102 Introduction to Psychology II (3 cr.)
PSY P201 Psychobiology and Human Behavior (3 cr.)
PSY P211 Methods of Experimental Psychology (3 cr.)
PSY P316 Psychology of Childhood and Adolescents (3 cr.)
PSY P324 Abnormal Psychology (3 cr.)
PSY P325 Psychology of Learning (3 cr.)
PSY P326 Behavioral Neuroscience (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 Perception (3 cr.)
PSY P426 Laboratory in Behavioral Neuroscience (3 cr.)
PSY P427 Laboratory in Psychological Measure (3 cr.)
PSY P435 Laboratory in Human Learning and Cognition (3 cr.)
PSY P465 Psychophysics of Hearing (3 cr.)

Choose free electives to complete 124 credit hours.

NOTE: All exercise science majors must present evidence of cardiopulmonary resuscitation certification (CPR).

Suggested Courses for the Freshman Year (Exercise Science Emphasis)

First Semester (17 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P216 Concepts of Physical Fitness (3 cr.)
ENG W131 Elementary Composition (3 cr.)
or W170 Projects in Reading and Writing (3 cr.)
CHEM C101 Elementary Chemistry (3 cr.)
CHEM C121 Elementary Chemistry Laboratory (2 cr.)
MATH M118 Finite Mathematics (3 cr.)
or MATH M119 Brief Survey of Calculus I (3 cr.)

Second Semester (16 cr.)
HPER P280 Principles of Athletic Training (2 cr.)
HPER P316 Theories of Advanced Conditioning (2 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
CMCL S121 Public Speaking (3 cr.)
Chemistry or Mathematics Elective (3-5 cr.)
Free Electives (4-6 cr.)

Sport Communication—Broadcast Emphasis

(Kinesiology Major)

Four-year program with emphasis on broadcasting leading to the degree Bachelor of Science in Kinesiology. Course work in conjunction with the Department of Telecommunications. (For special admission requirements, see the "Admission" section in the front of this bulletin).

Required Courses (36 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P392 Sport in American Society (3 cr.)
HPER P405 Introduction to Sport Psychology (3 cr.)
HPER P415 Sport Promotion and Public Relations (3 cr.)

Select one of the following:
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)

Select one of the following:
HPER P411 Legal Issues in Sport Setting (3 cr.)
HPER R441 Legal Aspects of Recreation, Parks, Tourism, and Sports Management (3 cr.)

Select one of the following:
HPER P200 Microcomputer Applications in Physical Education (3 cr.)
EDUC W200 Microcomputers in Education (3 cr.)
HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.)
CSCI A110 Introduction to Computing (3 cr.)
BUS K201 Computer Application in Business (3 cr.)

Select 9 credits from the following:
HPER P211 Introduction to Sport Management (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)

HPER P324 Recreational Sport Programming (3 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P418 Sport Marketing (3 cr.)
HPER P438 Internship in Sport Communication (3 cr.)
HPER P444 Issues in Physical Education and Sport (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER A484 Interscholastic Athletic Program (3 cr.)
HPER N220 Basic Nutrition (3 cr.)
or HPER N231 Human Nutrition (3 cr.)
HPER P334 Cultural Diversity in American Sport (3 cr.)
HPER P318 Management of the Sport Enterprise (3 cr.)
HPER P216 Concepts of Physical Fitness (3 cr.)
HPER P217 Methods of Fitness Exercise Instruction (3 cr.)
HPER P447 Special Topics in Physical Education and Athletics (3 cr.)

Select 3-4 credits from the following:
Any HPER A361-371 Coaching of .....
or any HPER "E" Class

Telecommunication Requirements (24 cr.)

Required:
TEL T101 Living in the Information Age (3 cr.)
(A minimum grade of C– is required.)
TEL T211 Broadcast Writing (3 cr.)

Majors must complete *at least* one course in each of the three telecommunications areas and take *at least* 12 credit hours at 300-400 level in telecommunications.

Select 18 credits from the following:

Media and Society
TEL T205 Introduction to Media and Society (3 cr.)
TEL T311 Media History (3 cr.)
TEL T312 Politics and Media (3 cr.)
TEL T313 Comparative Media Systems (3 cr.)
TEL T314 Processes and Effects (3 cr.)
TEL T317 Children and Media (3 cr.)
TEL T348 Audience Analysis (3 cr.)
TEL T414 Public Communication Campaigns (3 cr.)
TEL T424 Telecommunications and the Constitution (3 cr.)
TEL T427 International Telecommunications (3 cr.)
TEL T445 Sports and Television (3 cr.)
TEL T451 Topical Seminar in Media and Society (3 cr.)
TEL S451 Honors Seminar in Media and Society (3 cr.)

Design and Production
TEL T206 Introduction to Design and Production (3 cr.)
TEL T211 Writing for Electronic Media (3 cr.)
TEL T283 Introduction to Production Techniques and Processes (3 cr.)
TEL T331 Script Writing (3 cr.)
TEL T336 Digital Video Production (3 cr.)
TEL T337 Video Field Production (3 cr.)
TEL T338 Audio Production (3 cr.)
TEL T339 Television Studio Production (3 cr.)
TEL T434 Advanced Production Workshop (3 cr.)
TEL T437 WTIU Production Workshop (3 cr.)
TEL T452 Topical Seminar in Design and Production (3 cr.)
TEL S452 Honors Seminar in Design and Production (3 cr.)

Industry and Management Area
TEL T207 Introduction to Telecommunications Industry and Management (3 cr.)
TEL T242 Public Telecommunications (3 cr.)
TEL T316 Media Ethics and Professional Responsibility (3 cr.)
TEL T321 Policymaking in Telecommunications (3 cr.)
TEL T322 Telecommunications Networks (3 cr.)
TEL T326 Network Design (3 cr.)
TEL T327 Data Communications (3 cr.)
TEL T329 Cable/Broadband Communications (3 cr.)
TEL T340 Electronic Media Advertising (3 cr.)
TEL T344 Programming Strategies (3 cr.)
TEL T347 Promotion and Marketing (3 cr.)
TEL T413 Global Media Issues (3 cr.)
TEL T416 Program Analysis and Criticism (3 cr.)
TEL T421 Economics of Communication Industries (3 cr.)
TEL T422 Business Applications of Telecommunications (3 cr.)
TEL T425 Telecommunications Law and Regulation (3 cr.)
TEL T441 Advanced Advertising Strategies (3 cr.)
TEL T446 Telecommunications Management (3 cr.)
TEL T453 Topical Seminar in Telecommunications Industry and Management (3 cr.)
TEL S453 Honors Seminar in Telecommunications Industry and Management (3 cr.)

General-Education Requirements

Written and Oral Communications (15 cr.)

Required:

Select one of the following:
CMCL S121 Public Speaking (3 cr.)
CMCL S122 Interpersonal Communication (3 cr.)

Select one of the following:
ENG W131 English Composition I (3 cr.)
(A minimum grade of C– is required.)

ENG W170 Project in Reading Writing (3 cr.)
(A minimum grade of C– is required.)

Select one of the following:
ENG W231 Professional Writing Skills (3 cr.)
ENG W270 Argumentative Writing (3 cr.)

Select 6 credit hours from the following:
ENG W103 Introduction to Creative Writing (3 cr.)
ENG W203 Creative Writing (3 cr.)
ENG G205 Introduction to the English Language (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.)
AFRO A141 Introduction to Writing and Black Literature (4 cr.)
AFRO A142 Introduction to Writing and Black Literature (4 cr.)
ENG W143 Interdisciplinary Study of Expository Writing (1 cr.)
THTR T325 Voice and Speech (3 cr.)
ENG G302 Structure of Modern English (3 cr.)
Select any Communication and Culture (CMCL) course.
JOUR C327 Writing for Publication (3 cr.)

Humanities (12 cr.)

Select courses to total 12 credit hours.

Life and Physical Science (9 cr.)

Select one of the following math courses (A minimum grade of C– is required.)
MATH M118 Finite Mathematics (3 cr.)
MATH M119 Brief Survey of Calculus I (3 cr.)

Select additional 9 credits of any life and physical science course.

Social Science (12 cr.)

Required:
PSY P101 Introduction of Psychology I (3 cr.)
SOC S100 Sociology Analysis of Society (3 cr.)
or SOC S101 Social Programs and Policies (3 cr.)

Select additional hours to total 12 credits of any social or behavioral science course.

Choose free electives to complete 124 credit hours.

Only free electives may be taken Pass/Fail.

Sport Communication—Print Emphasis

(Kinesiology Major)

Four-year program with emphasis on sport journalism leading to the degree Bachelor of Science in Kinesiology. Course work in conjunction with the School of Journalism. (For special admission requirements, see the "Admission" section in this bulletin.)

Required Courses (36 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P392 Sport in American Society (3 cr.)
HPER P405 Introduction to Sport Psychology (3 cr.)
HPER P415 Sport Promotion and Public Relations (3 cr.)

Select one of the following:
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER H160 First Aid and Emergency Care (3 cr.)

Select one of the following:
HPER P411 Legal Issues in Sport (3 cr.)
HPER R441 Legal Aspects of Recreation, Parks, Tourism, Sports Management (3 cr.)

Select one of the following:
HPER P200 Microcomputer Applications in Physical Education (3 cr.)
EDUC W200 Microcomputers in Education (3 cr.)
HPER R237 Computers in Park, Recreation, and Tourism Management (3 cr.)
CSCI A110 Introduction to Computing (3 cr.)
BUS K201 Computer Application in Business (3 cr.)

Select 9 credits from the following:
HPER P211 Introduction to Sport Management (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER P324 Recreational Sport Programming (3 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P418 Sport Marketing (3 cr.)
HPER P438 Internship in Sport Communication (3 cr.)
HPER P444 Issues in Physical Education and Sport (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER A484 Interscholastic Athletic Program (3 cr.)
HPER N220 Basic Nutrition (3 cr.) *or* HPER N231 Human Nutrition (3 cr.)
HPER P334 Cultural Diversity in American Sport (3 cr.)
HPER P318 Management of Sport Enterprise (3 cr.)
HPER P216 Concepts of Physical Fitness (3 cr.)
HPER P217 Methods of Fitness Exercise Instructing (3 cr.)
HPER P447 Special Problems in Physical Education and Athletics (3 cr.)

Select 3-4 credits from:
Any HPER A361-371 "Coaching of ....."
or any HPER "E" Class

Journalism (24 cr.)

Required:
JOUR J110 Foundations of Journalism and Mass Communication (3 cr.) (A minimum grade of C– is required.)
JOUR J200 Reporting, Writing, and Editing I (3 cr.)
JOUR J201 Reporting, Writing, and Editing II (3 cr.)
JOUR J210 Visual Communication (3 cr.)
JOUR J300 Communication Law (3 cr.)
JOUR J410 The Media as a Social Institution (3 cr.)

Journalism Electives

Select one of the following:
JOUR J315 Feature Writing (3 cr.)
JOUR J335 Retail and Direct Advertising (3 cr.)
JOUR J341 Newspaper Reporting (3 cr.)
JOUR J342 Magazine Reporting (3 cr.)
JOUR J343 Broadcast News (3 cr.)
JOUR J344 Photojournalism Reporting (3 cr.)
JOUR J351 Newspaper Editing (3 cr.)
JOUR J352 Magazine Editing (3 cr.)
JOUR J354 Photojournalism Editing (3 cr.)
JOUR J420 Advertising as Communication (3 cr.)
JOUR J429 Public Relations Campaign (3 cr.)
JOUR J455 News Analysis and Opinion Writing (3 cr.)
JOUR J463 Computerized Publication Design I (3 cr.)

Select one of the following:
JOUR J409 Media Management (3 cr.)
JOUR J414 International News-Gathering Systems (3 cr.)
JOUR J423 Public Opinion (3 cr.)
JOUR J428 Public Relations Management (3 cr.)
JOUR J438 Problems in Advertising (3 cr.)
JOUR J450 History of Journalism (3 cr.)
JOUR J470 Broadcast Media Analysis (3 cr.)

General-Education Requirements

Written and Oral Communications (15 cr.)

Required:

Select one of the following:
CMCL S121 Public Speaking (3 cr.)
CMCL S122 Interpersonal Communication (3 cr.)

Select one of the following:
ENG W131 English Composition I (3 cr.) (A minimum grade of C– is required.)
ENG W170 Project in Reading and Writing (3 cr.) (A minimum grade of C– is required.)

Select one of the following:
ENG W231 Professional Writing Skills (3 cr.)
ENG W270 Argumentative Writing (3 cr.)

Select 6 credits from the following:
ENG W103 Introduction to Creative Writing (3 cr.)
ENG W203 Creative Writing (3 cr.)
ENG G205 Introduction to the English Language (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.)
AFRO A141 Introduction to Writing and the Study of Black Literature (4 cr.)
AFRO A142 Introduction to Writing and the Study of Black Literature (4 cr.)
ENG W143 Interdisciplinary Study of Expository Writing (1 cr.)
THTR T325 Voice and Speech (3 cr.)
ENG G302 Structure of Modern English (3 cr.)
Any Communication and Culture (CMCL) course
JOUR C327 Writing for Publication (3 cr.)

Humanities (12 cr.)

One semester of foreign language

Select additional hours to total 12 credits.

Life and Physical Science (9 cr.)

Select one of the following mathematics courses (A minimum grade of C– is required.)
MATH M118 Finite Math (3 cr.)
MATH M119 Brief Survey of Calculus I (3 cr.)

Select additional life and physical science courses to total 9 credit hours.

Social Science (12 cr.)

Required:
PSY P101 Introduction of Psychology I (3 cr.)
SOC S100 Sociological Analysis of Society (3 cr.) *or* SOC S101 Social Programs and Policies (3 cr.)

Choose additional social or behavioral science courses to total 12 credits.

Choose free electives to complete 124 credit hours.

Only free electives may be taken Pass/Fall.

Sport Marketing and Management Emphasis

(Kinesiology Major)

Four-year program with emphasis on sport marketing and management leading to the degree Bachelor of Science in Kinesiology. Admission to the program is limited. For admission requirements, see the "Admission" section in the front of this bulletin).

Kinesiology Core (36-41 cr.)

Required:
HPER P211 Introduction to Sport Management (3 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)
HPER P318 Management of Sport Enterprise (3 cr.)

HPER P333 Sport in America: Historical Perspective (3 cr.)
HPER P392 Sport in American Society (3 cr.)
HPER P405 Introduction to Sport Psychology (3 cr.)
HPER P411 Legal Issues in Sport (3 cr.)
HPER P418 Sport Marketing (3 cr.)
HPER P423 Financial Principles of Sport (3 cr.)
HPER P428 Strategic Management in the Sport Industry (3 cr.)
HPER A484 Interscholastic Athletic Programs (2 cr.)

Select one of the following:
HPER P439 Practicum in Sport Marketing and Management (1-3 cr.)
HPER P449 Internship in Sport Marketing and Management (2-6 cr.)

Computer Competency (3 cr.)

Required:

Select one of the following:
HPER P200 Microcomputer Applications in Physical Education (3 cr.)
BUS K201 The Computer in Business (3 cr.)

Business Core (24 cr.)

Required:
ECON E201 Introduction to Microeconomics (3 cr.)
ECON E202 Introduction to Macroeconomics (3 cr.)
BUS A201 Introduction to Accounting I (3 cr.)
BUS A202 Introduction to Accounting II (3 cr.)
BUS L201 Legal Environment in Business (3 cr.)
BUS M300 Introduction to Marketing (3 cr.)
BUS Z302 Managing and Behavior in Organizations (3 cr.)

Select one of the following:
BUS X100 Business Administration: Introduction (3 cr.)
BUS X204 Business Communication (3 cr.)
BUS F260 Personal Finance (3 cr.)
ECON E270 Introduction to Statistical Theory in Business (3 cr.)

General-Education Requirements

Humanities (18 cr.)
CMCL S121 Public Speaking (3 cr.)
CMCL S122 Interpersonal Communications (3 cr.)

Select 9 credits from the following:
ENG W131 English Composition I or equivalent (a minimum grade of C–) *or* ENG W170 Projects in Writing and Reading (a minimum grade of C–) (3 cr.)
CMCL S223 Business and Professional Communications (3 cr.)
ENG W103 Introduction to Creative Writing (3 cr.)
ENG W203 Creative Writing (3 cr.)
ENG W270 Argumentative Writing (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
JOUR J110 Communication in American Civilization (3 cr.)
JOUR J200 Writing for Mass Media (3 cr.)
JOUR J210 Visual Communication (3 cr.)
TEL T211 Broadcast Writing (3 cr.)

Select any 3 credits from any humanities courses.

Life and Physical Science (9 cr.)

Required:
MATH M118 Finite Mathematics (3 cr.)
MATH M119 Brief Survey of Calculus I (3 cr.)

Select additional hours to total 9 credit hours from any life and physical science courses.

Social Sciences (12 cr.)

Required:
PSY P101 Introduction to Psychology I (3 cr.)
SOC S100 Sociological Analysis of Society (3 cr.)
Select any 6 credit hours of social and behavioral science courses.

Recommended:
SOC S101 Social Programs and Policies (3 cr.)
PSY P102 Introduction to Psychology II (3 cr.)
SOC S210 Social Organization (3 cr.)
SOC S215 Social Change (3 cr.)
SOC S230 Society and the Individual (3 cr.)

Sport Marketing and Management Electives (12 cr.)

Select 12 credit hours from any of the following categories:

Business
BUS K201 The Computer in Business (3 cr.)
BUS X204 Business Communication (3 cr.)
BUS F260 Personal Finance (3 cr.)
ECON E270 Introduction to Statistical Theory in Business (3 cr.)
BUS D301 The International Business Environment (3 cr.)
BUS R300 Principles of Real Estate (3 cr.)
BUS G300 Introduction to Managerial Economics (3 cr.)
BUS N300 Principles of Risk and Insurance (3 cr.)
BUS N320 Property-Liability Insurance (3 cr.)
BUS X420 Business Career Plan and Placement (2 cr.)
BUS F300 Introduction to Financial Management (3 cr.)
BUS P300 Introduction to Operation Management (3 cr.)

Geography
GEOG G320 Population Geography (3 cr.)
GEOG G401 Retail Geography (3 cr.)

Health, Physical Education, and Recreation
HPER S101 Introduction to Safety Science (3 cr.)
HPER R160 Recreation and Leisure (3 cr.)

HPER P280 Principles of Athletic Training and Emergency Care (3 cr.) *or* HPER H160 First Aid and Emergency Care (3 cr.)
HPER H318 Drug Use in American Society (3 cr.)
HPER P324 Recreation Sports Programming (3 cr.)
HPER P415 Sport Promotion and Public Relations (3 cr.)
HPER P427 Pool Management, Maintenance, and Construction (3 cr.)
HPER P444 Issues in Physical Education and Sport (3 cr.)
HPER P416 Corporate Fitness (3 cr.)
HPER H363 Personal Health (3 cr.)
HPER P447 Special Problems in Physical Education and Athletics (3 cr.)

Afro-American Studies
AFRO A265 Sports and the Afro-American Experience (3 cr.)

English
ENG L210 Topics in English and American Literature and Culture Topic: College Sports (3 cr.)
ENG L295 American Film Culture Topic: Images of Sports (3 cr.)
ENG L240 Sports Images (3 cr.)

Journalism
JOUR J110 Communications in American Civilization (3 cr.)
JOUR J210 Visual Communication (3 cr.)
JOUR J320 Principles of Creative Advertising (3 cr.)
JOUR J335 Retail and Direct Advertising (3 cr.)
JOUR C327 Writing for Publication (3 cr.)

Psychology
PSY P320 Social Psychology (3 cr.)
PSY P327 Psychology of Motivation (3 cr.)

Sociology
SOC S101 Social Problems and Policies Topic: Sociology of Sport (3 cr.)
SOC S315 Sociology of Work (3 cr.)

Telecommunications
TEL T100 Telecommunication in Society (3 cr.)
TEL T310 Introduction to Television Criticism (3 cr.)
TEL T315 Advertising and Consumer Culture (3 cr.)
TEL T340 Broadcast Advertising (3 cr.)
TEL T445 Sports and Television (3 cr.)
TEL T347 Promotion and Marketing (3 cr.)
TEL T348 Audience Analysis (3 cr.)

Choose free electives to complete 124 credit hours. Only free electives may be taken Pass/Fail.

Suggested Courses for the Freshman Year (Sport Marketing and Management Emphasis)
First Semester (15 cr.)
HPER P211 Introduction to Sport Management (3 cr.)
ENG W131 Elementary Composition (3 cr.) *or* ENG W170 Projects in Reading and Writing (3 cr.)
MATH M118 Finite Mathematics (3 cr.) *or* MATH M119 Brief Survey of Calculus (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)
CMCL S121 Public Speaking (3 cr.)

Second Semester (15 cr.)
BUS A201 Introduction to Accounting I (3 cr.)
ECON E201 Introduction to Microeconomics (3 cr.)
Humanities (3 cr.)
Social and Behavioral Science (3 cr.)
SOC S100 Introduction to Sociology (3 cr.)

Kinesiology Minor—Nonteaching Option

Students pursuing nonteaching degrees in other departments may pursue a nonteaching kinesiology minor.

This minor requires 18 credit hours with a minimum overall GPA of 2.0.

Required Courses (5-6 cr.)
HPER P212 Introduction to Exercise Science (3 cr.)

Select one:
HPER P211 Introduction to Sport Management (3 cr.)
HPER P280 Principles of Athletic Training (2 cr.)
HPER P333 Sport in America: Historical Perspectives (3 cr.)

Students may select from any of the following list(s) of courses to total 18 credit hours:

Fitness
HPER P280 Principles of Athletic Training and Emergency Care (2 cr.)
HPER A281 Recognition and Evaluation of Athletic Injuries (3 cr.)
HPER P216 Concepts of Physical Fitness (3 cr.)
HPER P217 Methods of Exercise Instruction (3 cr.)
HPER P316 Theories of Advanced Conditioning (2 cr.)
HPER P317 Strength Training (2 cr.)
HPER P326 Lifeguard Training and Water Safety (2 cr.)
HPER P416 Corporate Fitness (3 cr.)
HPER P419 Fitness Testing and Programming (3 cr.)
HPER P420 Exercise Leadership Instruction (3 cr.)
HPER P447 Fitness Testing and Programming (3 cr.)

HPER P447 Special Problems in Physical Education and Athletics (1-3 cr.)
HPER P492 Laboratory Assisting in Sport Science (3 cr.)
HPER P499 Research in Physical Education (1-3 cr.)

Management
HPER P211 Introduction to Sport Management (3 cr.)
HPER P318 Management of the Sport Enterprise (3 cr.)
HPER P324 Recreational Sports Programming (3 cr.)
HPER P327 Administration, Maintenance, and Construction of Aquatic Facilities (3 cr.)
HPER P411 Legal Issues in Sport (3 cr.)
HPER P415 Sport Promotions and Public Relations (3 cr.)
HPER P418 Sport Marketing (3 cr.)
HPER A483 Principle of Sports Officiating (1 cr.)
HPER A484 Interscholastic Athletic Program (2 cr.)

Science
HPER P205 Structural Kinesiology (3 cr.)
HPER P391 Biomechanics (3 cr.)
HPER P398 Adapted Physical Education (3 cr.)
HPER P399 Practicum in Adapted Physical Education (1-2 cr.)
HPER P448 Internship in Exercise Science (3 cr.)
HPER P401 Adapted Physical Education II (3 cr.)
HPER P409 Basic Exercise Physiology (3 cr.)
HPER P447 Special Programs in Physical Education and Athletics (3 cr.)
HPER P452 Motor Learning (3 cr.)
HPER P490 Motor Development and Learning (3 cr.)
HPER P493 Tests and Measurements in Physical Education (3 cr.)
HPER P499 Research in Physical Education and Athletics (3 cr.)

Sociology/Psychology
HPER P333 Sport in America: Historical Perspectives (3 cr.)
HPER P334 Cultural Diversity in American Sport (3 cr.)
HPER P392 Sport in American Society (3 cr.)
HPER P405 Introduction to Sport Psychology (3 cr.)
HPER P444 Issues in Physical Education and Sport (3 cr.)
HPER P447 Special Problems in Physical Education (1-3 cr.)
HPER P499 Research in Physical Education (1-3 cr.)

Coaching Endorsement

The Coaching Endorsement is intended for non–kinesiology majors who are pursuing majors in other teaching areas.

Required Courses
HPER P205 Structural Kinesiology (3 cr.)
HPER P216 Concepts of Physical Fitness (3 cr.)
HPER P280 Athletic Training Emergency Care (2 cr.)
HPER P316 Advanced Theories of Conditioning (2 cr.)
HPER P405 Introduction to Sport Psychology (3 cr.) *or* HPER P490 Motor Development and Learning (3 cr.)

Select 4 credits from below:
HPER A361 Coaching of Football (2 cr.)
HPER A362 Coaching of Basketball (2 cr.)
HPER A363 Coaching of Baseball (2 cr.)
HPER A364 Coaching of Track and Field (2 cr.)
HPER A366 Coaching of Gymnastics (2 cr.)
HPER A367 Coaching of Swimming and Diving (2 cr.)
HPERA370 Coaching of Soccer (2 cr.)
HPER A371 Coaching of Volleyball (2 cr.)
HPER A484 Interscholastic Athletic Programs (2 cr.)
HPER P498 Practicum in Physical Education (2 cr.)

Recreation Major

This curriculum provides a broad general education coupled with management, leadership, and supervision course work, as well as practicum experience. Students are considered to be candidates in good standing for a recreation and park administration major when they have been officially admitted to the program, when they have earned a minimum GPA of 2.3 in all recreation core and specialization courses, and when all school retention requirements are met.

All majors, regardless of emphasis, are required to take the following core curriculum (74-76 cr.).

General Education (37 cr.)
ENG W131 Elementary Composition I (3 cr.) *or* W170 Projects in Reading and Writing (3 cr.)
ENG W231 Professional Writing Skills (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)
PSY P102 Introductory Psychology II (3 cr.)
SOC S100 Introduction to Sociology (3 cr.)
CMCL S121 Public Speaking (2 cr.) *or* CMCL S122 Interpersonal Communication (2 cr.)
History or Political Science Elective (3 cr.)
Humanities Electives (6 cr.)
Sociology Elective (3 cr.)
Statistics Elective (3 cr.)
Life or Physical Science Elective (5 cr.)
Therapeutic Recreation majors can take:
* Sociology elective *or* P320 Social Psychology

Therapeutic Recreation majors must take:
*Chemistry C101 (3 cr.) and Chemistry C121 *or* Life/Physical Science Elective (2 cr.)

Professional (40-42 cr.)
HPER R160 Recreation and Leisure (3 cr.)
HPER R270 Special Recreation Services (3 cr.)
HPER R272 Recreation Activities and Leadership Methods (3 cr.)
HPER R237 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 R301 Internship Preparation (1 cr.)
HPER R363 Professional Internship (12-14 cr.)

Emphasis Requirements (48-50 cr.)
Students must also elect one of the following five emphases: park and recreation management; therapeutic recreation; outdoor recreation and resource management; sport management; or tourism management.

Recreation Degree Programs

Park and Recreation Management Emphasis (48-50 cr.)

(Recreation Major)
HPER R266 Management of Park and Recreation Facilities (3 cr.)
HPER R271 Dynamics of Outdoor Recreation (3 cr.)
HPER R281 Landscape Horticulture (3 cr.)
HPER R324 Recreational Sports Programming (3 cr.)
HPER R338 Recreation Resource Management (3 cr.)
HPER R422 Economics and Marketing for Leisure Services (3 cr.)
HPER R402 Senior Seminar in Management (1 cr.)
HPER R441 Legal Aspects of Recreation, Parks, Tourism, and Sport Management (3 cr.)
HPER R451 Fiscal Management for Leisure Service Organizations (3 cr.)
HPER R468 Planning Park and Recreation Facilities (3 cr.)
BUS A200 Accounting for Non-Business Majors (3 cr.)
or BUS A201 Introduction to Accounting I (3 cr.)
CMCL S223 Business and Professional Speaking (3 cr.)
Specialized Electives (6 cr.)
Choose free electives to complete 124 credit hours. Only free electives may be taken Pass/Fail.

Recreational Sport Management Emphasis (48-50 cr.)

(Recreation Major)
HPER H160 First Aid and Emergency Care (3 cr.)
HPER R266 Management of Park and Recreation Facilities (3 cr.)
HPER R324 Recreational Sports Programming (3 cr.)
HPER R326 Customer Service and Media Relations (3 cr.)
HPER R398 Practicum in Recreational Sports (1 cr.)
HPER R402 Senior Seminar in Recreation and Park Administration (sport management emphasis) (1 cr.)
HPER R422 Economics and Marketing for Leisure Services (3 cr.)
HPER R451 Fiscal Management for Leisure Service Organizations (3 cr.)
HPER R441 Legal Aspects of Recreation, Parks, Tourism, and Sport Management (3 cr.)
HPER R471 Recreation Personnel Management (3 cr.)
HPER R472 Recreational Sports Management (3 cr.)
BUS A200 Accounting for Non-Business Majors (3 cr.)
or BUS A201 Introduction to Accounting I (3 cr.)
CMCL S223 Business and Professional Communication (3 cr.)
Specialized Electives (6 cr.)
Choose free electives to complete 124 credit hours. Only free electives may be taken Pass/Fail.

Outdoor Recreation and Resource Management Emphasis (48-50 cr.)

(Recreation Major)
HPER R271 Dynamics of Outdoor Recreation (3 cr.)
HPER R280 Natural History (3 cr.)
HPER R317 Strategies and Methods of Interpretation (3 cr.)
HPER R423 Visitor Behavior (3 cr.)
HPER R338 Recreation Resource Management (3 cr.)
HPER R372 Interpretative Resources and Techniques (3 cr.)
HPER R402 Senior Seminar in Outdoor Recreation (1 cr.)
HPER R425 Ecosystem Management (3 cr.)
HPER R441 Legal Aspects of Recreation, Parks, Tourism, and Sport Management (3 cr.)
BIOL L350 Environmental Biology (3 cr.)
GEOL G103 Earth Science: Materials and Processes (3 cr.)
or GEOL G104 Earth Science: Evolution of the Earth (3 cr.)
or GEOG G107 Physical Systems of the Environment (3 cr.)

Concentration Courses (12 cr.)
Choose free electives to complete 124 credit hours. Only free electives may be taken Pass/Fail.

Therapeutic Recreation Emphasis (48-50 cr.)

(Recreation Major)

CLAS C209 Medical Terms from Greek and Latin (2 cr.)
ANAT A215 Basic Human Anatomy (5 cr.)
or HPER P205 Structural Kinesiology (3 cr.)
PHSL P215 Basic Mammalian Physiology (5 cr.)
PSY P316 Psychology of Childhood and Adolescence (3 cr.)
or HPER F150 Introduction to Life Span Human Development (3 cr.)
PSY P324 Abnormal Psychology (3 cr.)
HPER E119 Conditioning (2 cr.)
or HPER P290 Movement Exercises for Preschool and Elementary School Children (2 cr.)
HPER R160 Recreation and Leisure (3 cr.)
HPER R270 Special Recreation Services (3 cr.)
HPER R272 Recreation Activities and Leadership Methods (3 cr.)
HPER R277 Introduction to Therapeutic Recreation (3 cr.)
HPER R279 Outdoor Adventure Education (2 cr.)
HPER R301 Internship Preparation (1 cr.)
HPER R340 Leisure in Modern Society (3 cr.)
HPER R362 Therapeutic Recreation Communication (3 cr.)
HPER R363 Professional Internship (12-14 cr.)
HPER R378 Techniques in Therapeutic Recreation (3 cr.)
HPER R379 Clinical Practice in Therapeutic Recreation (3 cr.)
HPER R462 Organization and Management of Therapeutic Recreation Programs (3 cr.)
HPER R479 Trends and Issues in Therapeutic Recreation (3 cr.)
HPER R402 Senior Seminar in Therapeutic Recreation (1 cr.)
HPER R490 Research and Evaluation (3 cr.)
Therapeutic Intervention Elective (2-3 cr.)
Choose free electives to complete 124 credit hours. Only free electives may be taken Pass/Fail.

Tourism Management Emphasis (48-50 cr.)

(Recreation Major)

HPER R266 Management of Park and Recreation Facilities (3 cr.)
HPER R236 Tourism and Commercial Recreation (3 cr.)
HPER R450 Tourism Systems Planning (3 cr.)
HPER R351 Convention Management and Meeting Planning (3 cr.)
HPER R402 Senior Seminar in Management (1 cr.)
HPER R422 Economics and Marketing for Leisure Services (3 cr.)
HPER R441 Legal Aspects of Recreation, Parks, Tourism, and Sport Management (3 cr.)
HPER R468 Planning Park and Recreation Facilities (3 cr.)
Geography Elective (3 cr.)
BUS A200 Accounting for Non-Business Majors (3 cr.)
or BUS A201 Introduction to Accounting I (3 cr.)
HPER R451 Fiscal Management of Leisure Service Organizations (3 cr.)
Specialized Electives (6 cr.)
Skills Electives (6 cr.)
Choose free electives to complete 124 credit hours. Only free electives may be taken Pass/Fail.

Suggested Courses for Freshman Year in Recreation Major

First Semester (14 cr.)
ENG W131 Elementary Composition I (3 cr.)
PSY P101 Introductory Psychology I (3 cr.)
CMCL S121 Public Speaking (2 cr.)
or CMCL S122 Interpersonal Communications (2 cr.)
Humanities Elective (3 cr.)
Electives (3 cr.)

Second Semester (16 cr.)
HPER R160 Recreation and Leisure (3 cr.)
Life or Physical Sciences Elective (5 cr.)
PSY P102 Introductory Psychology II (3 cr.)
SOC S100 Introduction to Sociology (3 cr.)
Elective (2 cr.)

Recreation Minor (24 cr.)

Required Core Courses

HPER R160 Recreation and Leisure (3 cr.)
HPER R270 Inclusive Recreation Services (3 cr.)
HPER R272 Recreation Activities and Leadership Methods (3 cr.)
HPER R340 Leisure in Modern Society (3 cr.)

Other recreation and park administration courses to be selected with advisor.

Graduate Program

General Information

The graduate program provides 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 Departments of Applied Health Science, Kinesiology, and Recreation and Park Administration. The Master of Public Health degree is offered in public health education. In addition to these degree programs, the Department of Applied Health Science offers a certificate under specified conditions.

Admission

Graduate Application on the World Wide Web For in-depth information on the School of Health, Physical Education, and Recreation, Indiana University, and for graduate program application materials, visit the HPER home page on the World Wide Web at http://www.indiana.edu/~hper.

Application for Graduate Study

Information about graduate study and application materials may be obtained from:

Associate Dean for Academic Program Administration
School of Health, Physical Education, and Recreation
HPER 121
Indiana University
Bloomington, IN 47405-4801
(812) 855-1561

HPER home page on the World Wide Web:
http://www.indiana.edu/~hperweb/

Separate application procedures apply for those who are not citizens of the United States and/or those who have had their previous schooling outside of the United States. International application materials may be obtained from:

International Admissions
300 N. Jordan Avenue
Indiana University
Bloomington, IN 47405-7700
United States of America
(812) 855-0661

International applicants should read the information about the Test of English as a Foreign Language (TOEFL) and the Graduate Record Examination (GRE) as described in steps 5 and 6 below.

NOTE: Specific application materials must be requested for both the Athletic Training Program and the Clinical Exercise Physiology Program.

Steps for Admission

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

1. The completed Application for Graduate Program Admission should be submitted to the Records Office, School of Health, Physical Education, and Recreation, HPER 115, Indiana University, Bloomington, IN 47405-4801.
2. The applicant must submit official transcripts of all undergraduate and graduate course work taken at institutions other than Indiana University. Although a student may not have completed undergraduate course 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 bachelor's degree must be submitted before the student can be formally admitted.
3. The applicant should request three people to complete Application Reference Forms on his or her behalf. Writers of references should have sufficient knowledge of the applicant's abilities to make informed judgments about the applicant's 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 (optional).
5. Graduate Record Examination scores (aptitude portion only) must be submitted by all of the following students:
   a. All applicants for a director's or doctoral degree.
   b. All applicants for the Master of Science degree in the Departments of Kinesiology and Recreation and Park Administration.
   c. All applicants for the Master of Science in Nutrition in the Department of Applied Health Science.
   d. All applicants for all other master's degrees whose undergraduate grade point averages are lower than 2.8 on a 4.0 scale.
   e. All international applicants regardless of degree being sought.

Applicants who want to be considered for fall admission to a degree program that require submission of these scores are advised to take the Graduate Record Examination no later than December. Approximately eight weeks are required before GRE scores will be known. Decisions on admissions begin in February. Take the GRE early! For information concerning the Graduate Record Examination, write to the Educational Testing Service, Box 6000, Princeton, New Jersey 08541-6000. Applicants may visit the GRE web site at http://www.gre.org. For students who are already on the IU Bloomington campus, information can be obtained from the Office of Academic Affairs, School of Health, Physical Education, and Recreation, HPER 121, Indiana University, Bloomington, IN 47405-4801; telephone (812) 855-1561.

6. International applicants whose native language is not English must submit TOEFL scores. 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 must be submitted to the bursar, using the Graduate Application Fee return envelope. This envelope is included in the application packet. Enclose a check or money order made payable to Indiana University.

Applicants should be aware that applications are not reviewed until all required materials are received.

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

Application Deadlines

Review of applications for admission to the master's degree program with specialization in either athletic training or clinical exercise physiology begins February 1. These are highly selective programs; fewer than 20 applicants are admitted annually to each. Additional application materials are required for these two programs and must be specifically requested.

In general, doctoral admission decisions are not made in May, June, July, or August. Master's, directorate, and doctoral applicants seeking consideration for assistantships, fellowships, or scholarships should be certain that *complete* credentials have been received by the Records Office, School of Health, Physical Education, and Recreation, HPER 115, Indiana University, Bloomington, IN 47405-4801 [telephone (812) 855-1561], before February 1 in order to be considered for the next academic year.

Only those 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 clinical exercise physiology programs.

Admission Status

The types of admission status are as follows:

Regular (Unconditional) The applicant has met all admission requirements for the degree program and enrolls in accordance with the entry date in the application for admission. Unconditional admission may be granted to applicants having an approved undergraduate degree from a four-year accredited institution and an undergraduate grade point average not lower than 2.8 (on a 4.0 scale). NOTE: Initial registration for courses must occur within 18 months after the applicant has been accepted for admission.

Special Student (Conditional) The applicant is admitted with the understanding that successful completion of assigned prerequisites will result in regular (unconditional) admission status.

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. Applicants who are denied admission for other reasons may request reconsideration if significant new evidence can be presented concerning their ability to pursue graduate course 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.

Continuing Nondegree The holder of a bachelor's 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. Application forms are available in the Records Office, School of Health, Physical Education, and Recreation, HPER 115, Indiana University, Bloomington, IN 47405-4801; telephone (812) 855-1561. Official transcripts must be submitted. Before

being allowed to enroll, continuing nondegree students must be advised by the associate dean for academic program administration. Continuing 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. *It is important to note that no more than 9 credits taken before formal admission to a degree program in the school may be counted toward a graduate degree.*

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 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.

Audit Status A student who wants to enroll in a HPER graduate course as an auditor must complete the Permission to Audit Form and return it to the Records Office, School of Health, Physical Education, and Recreation, HPER 115, Indiana University, Bloomington, IN 47405-4801; telephone (812) 855-1561. 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.

Admission—Master's Degree

See also "Steps for 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 lower than 2.8 (on a 4.0 scale). Applicants for admission to the Master of Science programs in the Department of Kinesiology, Recreation and Park Administration, and the nutrition program in 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 average falls below these minimums if strong Graduate Record Examination scores have been earned or if other evidence of adequate academic potential can be presented.

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 course work. Such course work cannot be counted toward the credit hours required for completion of the degree but is required to be completed before the degree is granted.

Master's Thesis Option Applicants who are applying for the master's thesis option must complete all application materials as described earlier in "Steps for Admission." On the application, the applicant must request permission to pursue the master's thesis option. Admission to a graduate program does not ensure admission to the thesis option. The decision to admit an applicant to this option is based upon the applicant's academic preparation and area of interest, as well as the availability of a faculty member to guide the thesis research.

Admission—Director's Degree

See also "Steps for 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 (on a 4.0 scale).

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

Admission—Doctoral Degree

See "Steps for Admission."

Prerequisites Although most applicants for the doctorate generally 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 course work. Credit hours earned in courses prescribed for this purpose ordinarily cannot be included in the 90 credit hours required for the degree.

Minimum Admission Standards for Ph.D. Program Applicants must have a minimum GRE score of 600 in one of the following areas: verbal, quantitative, or analytical; an undergraduate GPA of at least 3.0; and graduate GPA of at least 3.5 and a TOEFL score of at least 550 (for international students whose native language is not English) to be considered for admission to the Ph.D. program.

Admission to Doctoral Study in the Department of Kinesiology Successful applicants for the doctoral program in the Department of Kinesiology will ordinarily have GRE scores at or above the mean scores reported annually by Educational Testing Service in at least two of the three measures (verbal, quantitative, analytical), with a score of 600 in at least one of the three; an undergraduate GPA of at least 3.0; and graduate GPA of at least 3.5. Admission to the doctoral program in kinesiology is also dependent on the availability of a faculty advisor in the area of study.

Financial Assistance

Student Academic Appointments

Application and Deadline Applicants must submit an Application for Assistantship by February 1. The credentials of the applicants for each department are reviewed beginning in February and awardees are notified no later than June 1.

Eligibility Any graduate student who is officially admitted with a major in applied health science, kinesiology, or recreation and park administration is eligible to apply for a graduate student academic appointment (SAA).

Criteria Criteria for selection are experience, departmental needs, scholarship records, and recommendations.

Duties Students may be appointed as associate instructors, research assistants, or graduate assistants. 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.

Stipend Stipends for academic-year assistantships range from $8,100 to $9,300. These are based on whether a student is a master's or doctoral student, and the number of years in the graduate program.

Fee Remission Limited or full fee remissions may be awarded to any student working in a graduate student academic appointment at least 6 hours per week. Fee remissions may be awarded for a maximum of 30 credit hours per 12-month period beginning with the start of the fall semester with at most 12 credit hours in any semester or combined summer session. Fee remissions do not cover dedicated fees, activities fee, and special fees.

Other Forms Required

All applicants for a graduate student academic appointment must submit the Indiana Free Application for Federal Student Aid (FAFSA). This form is available from the IU Bloomington Office of Student Financial Assistance (OSFA), Franklin Hall 208, Indiana University, Bloomington, IN 47405-2806; telephone (812) 855-0321.

The priority date for academic-year assistance is March 1. The FAFSA should be completed as soon as possible after January 1, but no later than March 1; it is submitted to a federal processor, which will send information to the OSFA as long as the student lists IU Bloomington on the form. Additional information concerning other fellowships, scholarships, grants, and loans may be obtained by contacting the OSFA.

Doctoral Fellowship Opportunity The School of Health, Physical Education, and Recreation awards University Fellowships to qualified doctoral students. All new incoming doctoral students, as well as current doctoral students in residence, are considered for this highly competitive fellowship.

Graduate Student Research and Travel Grant-In-Aid Student research and publication support is viewed by the School of Health, Physical Education, and Recreation faculty as an essential component in an academic environment that encourages undergraduate and graduate students to become actively engaged in research-related activities. The program of financial support for graduate student research in the school is intended to provide support for inquiry (Graduate Student Research Grant-In-Aid) and the dissemination of research results (Graduate Student Travel Grant-In-Aid). Two competitions are held annually with deadlines of November 1 and March 1. Applications and information are available in HPER 115.

Graduate Student Research and Human Subjects

Indiana University requires that all research using human subjects be approved before the research begins. This satisfies a number of federal, state, and institutional regulations, and more importantly, assures protection of the rights and welfare of persons used in research. Every research proposal submitted by a student and/or faculty member must contain documentation that clearance has been obtained for the use of human subjects. No thesis or dissertation will be accepted for which such clearance has not been obtained. Forms and procedures for this purpose are available in HPER 115.

Academic Regulations

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 current bulletin at the time of matriculation. Course requirements for each of the school's graduate programs are specified in the following sections of this bulletin.

General Information

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

Program Requirements/Tab Sheets

In the School of Health, Physical Education, and Recreation, the requirements for each degree program are outlined on a tab sheet, available in HPER 115. The tab sheet for each academic program specifies such requirements as total credit hours needed for completion of the degree, courses to be taken, GPA requirements, suggested electives, and other information. These tab sheets are used by students and their academic advisors to guide the selection of courses and monitor progress. Adhering to the requirements specified on the tab sheet is the student's responsibility. The program requirements in this bulletin are listed in the same order as found on the tab sheets. This is to show the order in which the school suggests these courses be taken.

Tab sheets are used in conjunction with a Registration Approval Form. Students meet with academic advisors to identify the courses in which they will enroll, and then submit the completed registration approval form to the Records Office in HPER 115 to receive the registration ticket. (Additional registration information is available in the *Schedule of Classes*.)

Grades 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 = 3.0; 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 grades of I, S, P, or W.

Grade of Incomplete A grade of I (incomplete) 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 grade of I within one calendar year from the date of its recording. Only upon appeal to the associate dean for academic program administration 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 should not register in a course in which they have a grade of I. Once a student has graduated, an Incomplete may remain on the official record. 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 courses will be denoted by R (deferred grade).

Withdrawal A grade of W (Withdrawn) is given automatically when a withdrawal from course work occurs during a specific span of time after the final schedule adjustment period at the beginning of a regular semester or summer session. For the dates of this period consult the *Schedule of Classes*. Thereafter, a W will be given only if the student is passing on the date of withdrawal and has an illness or employment obligation. 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 regarding withdrawal dates and procedures, refer to the *Schedule of Classes*.

NOTE: Reducing the number of credit hours will affect financial aid status, especially in relation to fellowships, scholarships, fee remissions, graduate work-study, hourly work-study, and scheduled repayment of loans. The details of specific awards should be reviewed before 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.

Restrictions on Independent Study Students whose cumulative grade point average is lower than 3.0 will not be permitted to register for the following independent study research and readings courses or for internships and practicums:

Applied Health Science: C640, C641, C644, C717, C777, F640, F641, H640, H641, H642, H643, H717, H740, H741, H777, N640, N641, S640, S641, S642, S643, S717, S777

Kinesiology: K601, K602, K604, K605, K606, K701, K702

Recreation and Park Administration: R640, R641, R740, R741

Pass/Fail Course work that is prerequisite to a degree program or that is to be counted toward the total credits required for the degree may not be taken on a Pass/Fail basis. With the written consent of the student's advisor and the associate dean for academic program administration, 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. For H.S.D., P.E.D., Re.D., and Ph.D. degrees, course work completed more than seven years prior to qualifying for candidacy in the School of Health, Physical Education, and Recreation is not applicable to the program unless it has been satisfactorily updated. The graduate advisor, after consultation with the advisory committee, may recommend to the associate dean for academic program administration that course work taken prior to the seven-year time limit be revalidated if it can be demonstrated that the knowledge contained in the course(s) remains current. Currency of knowledge may be demonstrated by such accomplishments as (a) passing an examination specifically on the material covered by the course; (b) passing a more advanced course in the same subject area; (c) passing a comprehensive examination in which the student demonstrates substantial knowledge of the content of the course; (d) teaching a comparable course; or (e) publishing scholarly research demonstrating fundamental principles of the course. *Each course* for which consideration for revalidation is being requested should be justified separately. NOTE: *A maximum of 15 credit hours may be revalidated.*
2. A minimum grade point average 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 credit hours of graduate work may be transferred from other institutions for application to a master's degree. Exception: Indiana University graduates may transfer up to 10 credit hours from other accredited graduate schools.
4. Credit for transfer course work must be submitted by the advisor on a Request for Transfer of Graduate Credit, HPER 115, for final approval of the associate dean for academic program administration.
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 by the advisor and the associate dean for academic program administration.
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 a maximum of 10 credit hours beyond the master's degree from other institutions.
8. Not more than 45 credit hours from other approved graduate institutions may be accepted toward the requirements for the P.E.D., Re.D., or H.S.D. A maximum of only 30 credits of such course work may be accepted toward the credits required for the Ph.D. The acceptance and distribution of the transferred credit are determined by the student's advisory committee at the time of the formal course prescription meeting and must be approved by the associate dean for academic program administration.
9. Grades of Pass (P) or Satisfactory (S) cannot be accepted unless there is official documentation from the transferring institution to verify that these grades are

equivalent to at least a B on a graduate grading scale.
10. No credit can be transferred for a course that cannot be officially documented as carrying graduate credit.

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

Time Limitations and Academic Deadlines

Students are responsible for knowing the following time limits and academic deadlines.

Initial Registration Initial registration for courses must occur within 18 months after the official admission date.

Master's Completion All requirements for a master's degree must be completed within six calendar years after initial enrollment in course work.

Directorate Completion All requirements for a directorate must be completed within six calendar years after initial enrollment in course work.

Doctorate Course Work Completion A student registered in a doctoral program must satisfactorily complete all course work and the qualifying examination within five years after the date of initial registration.

Doctorate Dissertation Completion The time limit for completion of the doctoral dissertation (including the dissertation defense and submission of the dissertation copies) is seven years from the date of passing the qualifying examination. Requalifying for candidacy is required if the dissertation is not completed within the seven-year period. Failure to meet this requirement will result in the termination of candidacy and of the student's enrollment in the degree program. Any student whose candidacy lapses will be required to apply for reinstatement before further work toward the degree may be formally done. (See also the section of this bulletin titled "Dissertation.")

Eligibility for Graduation At least six months prior to the expected date of graduation, candidates must file an Application for Graduation in the Records Office, HPER 115. Candidates for the Ph.D. degree must file a similar application with the University 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 the May 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 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 diplomas.

Residence Requirement

Residence is defined as full-time pursuit of academic course work on the Bloomington campus. 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. A full-time schedule is normally considered to consist of 12 to 15 credit hours of course work. For full-time graduate assistants, research assistants, and associate instructors, 6 credit hours constitute a full-time course load.

A period of full-time residence is not required for students in master's or director's degree programs. However, master's degree students must take a minimum of 25-30 of the required 35-45 credit 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.

Required Graduate Student Meetings

The graduate student is expected to meet regularly with advisory and/or research committees for academic and research advising. In addition to these informal meetings, the following official meetings are required for each of the graduate degrees:
Master's thesis option students: proposal meeting and thesis defense
Directorate thesis option students: course prescription meeting, directorate qualifying examination, proposal meeting, and thesis defense
Directorate internship option students: course prescription meeting, directorate qualifying examination, and final internship evaluation
Doctoral students: course prescription meeting, qualifying examination, proposal meeting, and dissertation defense

The proposal meeting and the thesis/dissertation defense are public meetings, open to the academic community. Those attending these meetings are expected to follow the established protocol.

The proposal meeting is open to faculty and students in the university community. During the first 30 minutes the student formally presents the research proposal in an open forum. Committee members and visitors have the opportunity to ask questions. Visitors leave after the formal presentation. The remaining time is determined by the student's research committee.

Information related to all of the required meetings is available in the *Graduate Student Academic Information Handbook,* HPER 115. *NOTE: No meetings can be scheduled during final examination week or vacation periods.*

Employment

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

Teacher Certification

Students who wish 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, Education 1074, 201 N. Rose Street, Bloomington, IN 47405-1006; telephone 856-8511.

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 credit hours of graduate course work, including HPER H519, and 12 credits approved by the student's advisor.

Master's Degrees[1]

Degrees offered by the school include a Master of Science in Applied Health Science, a Master of Science in Kinesiology, a Master of Science in Recreation, and a Master of Public Health. Students pursuing a Master of Science degree may select specific "options" for concentrated study within their major. The Master of Public Health degree prepares students 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 who want to earn a second master's or a dual degree in a different department in the school should contact the associate dean for academic program administration. Requirements vary for specific degree combinations. For more information refer to the *Graduate Student Academic Information Handbook,* available in HPER 121.

Thesis Option

When a student is admitted to the thesis option, a member of the graduate faculty will be appointed to serve as the student's advisor and as the chair of the master's thesis committee.

This committee consists of the chair and at least two other faculty members. Information regarding the eligibility of faculty members to serve on the master's thesis committee is available in the Office of Academic Affairs, HPER 121. The chair/advisor will guide all phases of the thesis development. After the thesis topic has been identified, the student must prepare a detailed outline of the research proposal; the outline must then be submitted to the committee for approval. The committee is also responsible for the evaluation of the completed thesis.

Before formal approval of the master's thesis proposal by the student's thesis committee, the proposed research must be presented at a public proposal meeting. Information about and applications for the proposal meeting are available in HPER 115. Approval of the master's thesis committee by the associate dean for academic program administration is required before the public proposal can be scheduled.

During the first 30 minutes of the proposal meeting, the student formally presents the research proposal in an open forum. Committee members and visitors have the opportunity to ask questions. Visitors leave after the formal presentation. The remaining time is determined by the student's research committee.

NOTE: Every proposal must contain documentation that clearance has been obtained for the use of human subjects. No thesis or dissertation will be accepted for which such clearance has not been obtained. Forms and procedures for this purpose are available in HPER 115.

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[1]For additional information see "Academic Regulations" in this bulletin and the HPER *Graduate Student Academic Information Handbook.*

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.

Master's students pursuing this option must consult the HPER *Graduate Student Academic Information Handbook* for information on such topics as format, meetings, and procedures.

Candidates must be enrolled during the semester (including summer) in which the thesis is defended.

All requirements for a master's degree must be completed within six calendar years after initial enrollment in course work.

Master of Science Degrees

For a Master of Science degree, students are required to successfully complete a minimum of 35 credit hours, at least 20 credit hours of which must be in the major department (applied health science, kinesiology, or recreation and park administration).

1. Athletic training requires the completion of 27 credit hours in the concentration area. Elective credits must be selected from a pool of approved courses.
2. The Master of Science in Kinesiology with emphasis in clinical exercise physiology requires 45 credit hours of approved course work. Elective credits must be selected from a pool of approved courses.
3. The Master of Public Health degree requires 40 credit hours of approved course work and 30 credit hours in the major.

For students choosing to write a thesis, a minimum of 20 credit 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 credits are elective selections.

In pursuing a master's degree, students may select one of the options listed in their major department. HPER courses required to fill the requirements for a given option will be counted toward the total 20 credit hours required in the major field. Even though a course from a discipline outside of the school may be required in a given option, it cannot be counted toward the total 20 credits 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 used to meet degree requirements must be approved by the advisor.

A maximum of 6 credit hours in independent study courses (not including internships) may be used to meet degree requirements unless special permission is obtained from the associate dean for academic program administration. A student must have at least a 3.0 grade point average in order to enroll in independent study courses.

Master's Degree—Double Major

A student may decide to complete two majors or areas of emphasis in the same department. All requirements for each program of study must be met. The student must complete a minimum of 15 credit hours from each area and must have a minimum of 45 credit hours combined for the two areas of study.

The student may use courses to satisfy requirements in each major when they are required in each degree program (e.g., T590 and T591), and courses from one major may be used to satisfy elective requirements for the other when an obvious relationship exists. However, such courses may be counted only once for credit.

In all cases, the academic advisor must recommend the use of the course work from the second major, and this must be approved by the associate dean.

Dual Master's Degrees

To be eligible to earn two master's degrees, the student must be formally admitted by both departments. All requirements for each degree must be met. If the student decides to complete a thesis, the thesis committee shall be comprised of two faculty from the department where the thesis is being completed, and one faculty member from the second major.

The student must complete a minimum of 20 credit hours from each department where the degrees will be awarded, and must have a minimum of 55 credit hours combined for the two degrees. In many cases it will be possible to use courses taken in one major as part of the other major, especially when the same course is required in both departments, and courses taken in one department may serve as electives for the other degree when it is obvious a close relationship exists. However, such courses may be counted only once for credit.

In all cases, the academic advisor must recommend the use of course work from the second degree and this must be approved by the associate dean.

Applied Health Science Options

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

Health Promotion H500, C589, H594, H642, C514 or C515, C591, C502 or H502 or S502, T590; 6 credits from C516, F551, F557, H517, H518, H520, H521, H522, H525, H528, H555, H595, H617, or N530.

Human Development/Family Studies C589, C591, T590; H599 (4-5 cr.) or F559 (3 cr.); at least 6 credits from F542, F543, F545, F548; at least 6 credits from F556, F557, F558, F559; at least 3 credits from F517, F641, H517, either F553 or H540; remaining credits from elective courses.

Nutrition Science C589, N530, N532, T590, C591 or MATH M466; Specialization 1 (applied science) choose 8-9 credits from N520, N525, N531, N533, N536, N620; Specialization 2 (basic science) requires CHEM C483, CHEM C484, and one from CHEM C318, CHEM C360, CHEM C364, CHEM C580, CHEM C583. Students in either specialization pursuing the thesis option must take H599 and those pursuing the nonthesis option must take N640, N641, or N539.

Safety Management C512, C589, C591, S501, S510, T590; 14 credits to be chosen from C511, E555, H517, S513, S517, S617, S640, S641.

School and College Health Education C589, C591, H500, H501 or H502 or H510, H594, T590; 6 credits in HPER H-prefixed and/or S-prefixed courses.

Kinesiology 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 an advisor, the student will select additional courses to complete the 35 required credit hours (45 in clinical exercise physiology) in one of the areas listed below (a minimum of 20 credits is required in kinesiology).

Adapted Physical Education For persons interested in working with handicapped individuals in both school and nonschool settings. Required core courses: A585, K535, K550, T590, T591. Required adapted physical education courses: K551, K552, K603, K650, K691.

Administration For persons interested in the administration of athletic and/or physical education programs in secondary schools or colleges. Required core courses: K530, K535, P452 or K542 or K545 or K546, T590, T591 or K576 or T595.

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. Required core courses: K525, K530, K535, P452 or K541 or K542, T590, T591 or K576 or T595.

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 1. Required core courses: A581, A582, A584, A585, A586, A590, A603, K535, T590, T591.

Exercise Science For persons interested in biomechanics, exercise physiology or biochemistry, or motor learning/motor development control. Prepares students for further graduate study. Required biomechanics core courses: K542, K530, K535, T590, T591. Required exercise physiology core courses: K530, P452, T590, T591, required corequisite: CHEM C341, C342. Required motor learning/motor control core courses: K530, K535, K542, T590, T591. Motor development courses: K530, K535, K542, K545, K546, T590, T591.

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.

Clinical Exercise Physiology 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 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. Those enrolled in this program will be trained to work in supporting roles with medical professionals who are trained in the diagnosis and treatment of medical problems. Completion of this degree is preparation for the following American College of Sports Medicine (ACSM) certificates: (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 credit hour program.) Admission to this program is by

separate application. Deadline: March 1. Required core courses: K561, K562, K563, K564, K565, K566, K567, K660 or K600, K635, T590; prerequisite: P409, PHYS P431.

Athletic Administration/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. Required core courses: K500, K510, K511, K512, K514, K515, K516 along with 9 credit hours of foundation courses.

Recreation and Park Administration Options

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

General Administration R500, R520, R521, R522, R539 or R599, R580, T590, T591, and T594. Remaining credits selected in consultation with advisor in accordance with career objectives in public agencies, private/commercial agencies, college unions, and general administration.

Recreational Sports Administration R500, R520, R521, R539 or R599, R570, R571, T590, T591, and T594. Remaining 6-9 credits from courses approved by advisor.

Therapeutic Recreation R500, R520, R560, R561, R562, R563, R642, T590, and T591. Remaining credits selected in consultation with advisor in accordance with career objectives in clinical and nonclinical settings.

Outdoor Recreation R500, R520, R539 or R599, T590, and T591. Remaining credits selected in consultation with advisor in accordance with general interest or specialization in resource management, outdoor interpretation, and outdoor leadership.

Master of Public Health Degree

Each student is required to complete at least 40 credit hours for the degree. All electives for completing the degree must be approved by the advisor.

Master of Public Health Option

Public Health Education C589, H500, H594, T590; 23-25 credits from C501, C502, C510, C511, C512, C591, C644 (5-7 cr.); 3-5 credits from C514, C515, C516, C618, C640, H595, or others.

Director's Degrees[1]

The director's degree is an intermediate degree between the master's degree and the doctorate. It provides 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, kinesiology, or recreation. Degrees offered are the Director of Health and Safety, the Director of Physical Education, and the Director of Recreation.

Candidates applying for admission should consider this level of graduate study to be a terminal degree.

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

Program of Studies

A total of 65 hours of approved graduate credit, including 30 credits beyond the master's degree, 35 credits in the major field, in addition to the 8 credits of thesis or 6-8 credits of internship; and 9 credits outside of the major department. 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 a maximum of 10 approved credit hours from other institutions. A maximum of 10 credit 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. For a listing of independent study courses, see "Restrictions on Independent Study" under the "Academic Standing" heading earlier in this bulletin.

Independent study courses such as readings, independent study, thesis, and practicum credit hours completed at another institution or as part of the master's program, may not be counted toward the director's degree.

Directorate Advisory Committee

The student's advisor (who will serve as chair) and at least one other graduate faculty member will make up the directorate advisory committee. The committee prepares a "prescription of courses" for the program of studies, writes and evaluates the written comprehensive examination, and supervises the thesis or the internship experience. Information on the eligibility of faculty members to serve on the directorate advisory committee is available in the Office of Academic Affairs, HPER 121.

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[1]For additional information, see "Academic Regulations" in this bulletin and the HPER *Graduate Student Academic Information Handbook*.

The directorate advisory committee will work with the student to prepare the course prescription. It must be approved by the advisory committee and filed in the HPER Records Office, HPER 115, for approval by the associate dean for academic program administration. This official meeting should occur during the first semester of full-time enrollment. Deficiencies in academic background will be diagnosed by the committee and remedial course work prescribed. In general, such remedial course work cannot be counted as a part of the credit hours required for the degree. Should the advisory committee prescribe requirements for completion of the degree that are not stated in the bulletin, this should be specified in writing as part of the formal course prescription.

Thesis

The candidate is encouraged to pursue a significant study in the major field. Appropriate scientific tools should be used 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.

NOTE: Every proposal must contain documentation that clearance has been obtained for the use of human subjects. No thesis or dissertation will be accepted for which such clearance has not been obtained. Forms and procedures for this purpose are available in HPER 115.

Students who have received approval to pursue the thesis option must consult the HPER *Graduate Student Academic Information Handbook*. 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 Office of Academic Affairs, HPER 121. Prior to formal approval of the proposal by the student's director's committee, the student is required to present the proposed research at a public proposal meeting. Information about and applications for the proposal meeting presentation are available in HPER 115. Approval of the director's thesis committee is required before the public proposal can be scheduled.

The research proposal meeting is open to faculty and students in the university community. During the first 30 minutes the student formally presents the research proposal in an open forum. Committee members and visitors have the opportunity to ask questions. Visitors leave after the formal presentation. The remaining time is determined by the student's research committee.

After completing all course work, the directorate candidate must enroll each semester for thesis or research credit at the regular fee until graduation. Candidates must be enrolled during the semester (including summer) in which the degree is awarded.

Internship

The internship lets the candidate work under the direct supervision of an experienced professional, gain practical insights into a major area of concentration, and keep up-to-date with new tools and techniques used by the profession. Special care is taken to avoid duplicating previous professional experiences and emphasis is placed on developing and exercising 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 the internship. The advisor must submit the Internship Agreement Form to HPER 115 after consultation with the student, the additional committee members, and the professional field advisor. 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. A final oral internship evaluation is conducted by the advisory committee following the completion of the internship.

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. A final oral examination is conducted by the advisory committee following the completion of the written comprehensive examination. If the advisory committee members concur, the final oral internship evaluation may be combined with the final comprehensive examination oral.

The qualifying examination is 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 associate dean for academic program administration, a student may apply to take the qualifying examination during the summer session. A student must file the 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 examination, students

must be within one course of completing their prescribed program of study and receive the recommendation of their advisor. With the recommendation of a student's advisory committee and approval from the associate dean of academic program administration, a student who fails the qualifying examination may be allowed to retake the examination once only. All requirements for a directorate must be completed within six calendar years after initial enrollment in course work.

Doctoral Degrees[1]

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 health behavior, human performance, and leisure behavior (offered through the University Graduate School but administered by the School of Health, Physical Education, and Recreation).

The H.S.D., P.E.D., and Re.D. 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. prepares candidates for careers in research on health-related behavior, human physical activity and leisure-related behavior from a variety of perspectives. Currently available specialties include adapted physical education, biomechanics, exercise physiology, health behavior, leisure behavior, motor learning and control, and motor development.

Admission to Doctoral Study See "Steps for Admission" and "Admission—Doctoral Program" in this bulletin.

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 following sections. (See also "Academic Regulations" in this bulletin.) 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 University Graduate School, Kirkwood Hall 111. (See "General Requirements for Advanced Degrees" and the section titled "Health, Physical Education, and Recreation" in the University Graduate School Bulletin.)

Doctoral Advisory Committee

A member of the graduate faculty will be appointed to chair the student's doctoral advisory committee. After some familiarity has been established with the courses and faculty, the student will nominate two additional faculty members to represent the major and minor areas on the advisory committee. The committee must include at least one member from outside the major department. Final confirmation of committee representatives is the responsibility of the associate dean for academic program administration. Information regarding the eligibility of faculty to serve on the doctoral advisory committee is available in the Office of Academic Affairs, HPER 121.

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 the advisory committee and the associate dean for academic program administration 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 toward the credit 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 bulletin must be specified in writing as part of the formal course prescription.

Admission to Candidacy

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. A student registered in a doctoral program must satisfactorily complete all course work and the qualifying examination within five years of the initial registration. It is the responsibility of the student to ensure that the Nomination to Candidacy form is filed in the HPER Records Office.

Qualifying Examinations

Before taking the qualifying examination in the major and minor areas, the student must fulfill one of the research skill options listed under "Research Skill Requirement" in this bulletin. The qualifying examinations may be taken when students are within one course of completing their prescribed program of studies. Passing the qualifying examination,

[1]For additional information, see "Academic Regulations" in this bulletin and the HPER *Graduate Student Academic Information Handbook.*

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. With the recommendation of a student's advisory committee and approval from the associate dean of academic program administration, a student who fails the qualifying examination may be allowed to retake the examination once only. The associate dean for academic program administration 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.

Each student is required to pass a comprehensive qualifying examination covering 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. 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 before the scheduled examination period. The doctoral qualifying examination is 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 associate dean for academic program administration, 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 during the week of final examinations or during recess periods.

According to the University 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 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. At least three members are required on H.S.D., P.E.D., and Re.D. committees, although additional members are encouraged when appropriate. The Ph.D. committee must have 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 associate dean for academic program administration. Information regarding the eligibility of faculty to serve on the Dissertation Research Committee is available in the Office of Academic Affairs, HPER 121. It is the responsibility of the student to ensure that the Nomination of Research Committee form is filed in the HPER Records Office.

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

It is expected that all doctoral candidates 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, the chairperson, or the co-chair, of the dissertation research committee must be in 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 dissertation 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. NOTE: (1) G901 is not offered during the summer sessions and (2) registration in G901 is restricted to 6 semesters.

In Absentia Enrollment

Doctoral candidates who want to enroll in absentia must notify the Records Office, HPER 115, of 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 based on the findings; and to present the study in acceptable written form. The dissertation should be designed and carried out so 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 research 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 presentation of the proposal must be made at a public proposal meeting. In planning for this presentation, candidates must follow the procedures stipulated by the associate dean for academic program administration. (Detailed information is available in HPER 115.)

The research proposal meeting is open to faculty and students in the university community. During the first 30 minutes the student formally presents the research proposal in an open forum. Committee members and visitors have the opportunity to ask questions. Visitors leave after the formal presentation. How the remaining time is used is determined by the student's research committee.

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 in HPER 115.

It is suggested that at the time of the public 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 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 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. Failure to meet this requirement will result in the termination of candidacy and of the student's enrollment in the degree program. To be reinstated to candidacy, the student must (a) apply for reinstatement and (b) retake and pass the qualifying examination or its equivalent (defined by the doctoral research committee in advance). A recommendation for reinstatement to candidacy must come from the chair of the doctoral research committee and receive final approval by the associate dean for academic program administration. Progress toward dissertation completion will be a factor in granting permission to continue. Such reinstatement, if granted, will be valid for a period of three years.

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 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 percent rag paper. Each of these copies must include a signed acceptance page and a signed 350-word abstract.
3. Two photocopies of the 350-word abstract, one signed and one unsigned (in addition to those included in each copy of the dissertation)

4. Two photocopies of a 200-word abstract (unsigned) for publication in *Completed Research in Health, Physical Education, and Recreation*
5. Two photocopies of the title page
6. Signed University of Oregon microfilm contract
7. Signed University Microfilms International (UMI) Doctoral Dissertation Agreement
8. Completed Survey of Earned Doctorate

NOTE: Ph.D. candidates must submit only the following to the School of Health, Physical Education, and Recreation, Office of Academic Affairs, HPER 121:

1. A signed University of Oregon microfilm contract
2. Two photocopies of a 200-word abstract for publication in *Completed Research in Health, Physical Education, and Recreation*
3. Two photocopies of the title page

Ph.D. candidates must submit the following directly to the University Graduate School, Kirkwood Hall 111:

1. One unbound and two bound copies of the dissertation on 100 percent rag paper
2. One signed and one unsigned 350-word abstract (in addition to those included in each copy of the dissertation)
3. Signed UMI "Doctoral Dissertation Agreement"
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 Office of Academic Affairs, HPER 121.

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

Final Examination

The final oral examination in defense of the dissertation is a public meeting conducted by the candidate's committee. An application, along with an approved abstract, for the final examination must be filed at least five weeks prior to the scheduled date of the exam. Failure to meet this deadline will delay the scheduling of the final defense. Formal announcement of the examination (which includes the abstract), with the approval of the committee chair, will be circulated to faculty and students of the school. For Ph.D. candidates, the announcement (including the abstract) will also be forwarded to the University Graduate School for distribution to all graduate faculty. It is the candidate's responsibility to secure the application form from the 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

Major and Minor Course Work Requirements

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.

The major will consist of 30 credit hours in a given field. Normally, a minor will consist of not fewer than 15 credit hours in an area approved by the candidate's advisory committee. Minors within the school may be

selected in (a) alcohol and drug use, (b) health promotion, (c) human development/family studies, (d) human sexuality education, (e) measurement and evaluation, (f) nutrition science, (g) kinesiology, (h) public health education, (i) recreation, (j) safety management, or (k) school and college health education. These minors may also be taken by doctoral students outside the school of HPER. Minors taken outside the school must include a minimum of 15 credit hours of course work unless otherwise specified by the minor department.

Applied Health Science Options for Doctorate Minor

The courses required for the applied health science doctoral minor options are as follows:

Addictive Behaviors C516, C518, C589; select two courses from F551, F557, H518, H528, H640, or 3 credits in consultation with an advisor.

Health Promotion C514 or C515; C589; an additional 9 credits in consultation with an advisor.

Human Development/Family Studies C589, F554. Select 12 credits from F517, F541, F545, F546, F551, F557, F558, F560, F656 in consultation with an advisor.

Human Sexuality Education C589, H515, H540, H555; 3 additional credits in consultation with an advisor.

Nutrition Science C589, N530, N532, N640, CHEM C483; also select one from N520, N531, N536, N620.

Public Health Education C501, C510, C512, C589, H500.

Distribution of Required Credits

Major area, 30 credits minimum
Minor area, 15 credits (or as stipulated by minor department)
Second minor or supporting electives, 15 credits
Dissertation, 15-20 credits
Electives, 15 credits
Total, 90 credits (minimum)

With certain exceptions (Department of Applied Health Science), students may not pursue a minor in the same department in which the major is taken. *A minimum of 15 graduate credits (either minor courses or electives) must be taken outside of the major department.* A minimum of 15 credit hours of doctoral dissertation credit is required.

All candidates for H.S.D., P.E.D., and Re.D. degrees must have taken HPER T590, and T592 or their equivalents. Substitutions will be made only with permission of the associate dean for academic program administration. HPER T590 and T592 may not be included in credits required for the major or minor fields, but they may be counted toward total credits required for the degree. T591 or its equivalent, a common prerequisite to higher-level statistics courses, will not count on the course prescription.

Independent courses such as readings, independent study, thesis, and practicum credit hours completed at another institution or as part of the master's program, may not be a part of the doctoral course prescription.

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. Graduate courses taken to fulfill option requirements generally cannot be counted toward total credits for the degree. Exception: HPER T592 may count toward the 9 required credits but may not be included in the major or minor. A grade point average of at least 3.0 (B) must be earned in courses in the language and research skill options. (See special requirements for the Ph.D. in the "Ph.D." section of this bulletin.)

Option I HPER T592; T691 or T693; or 3 additional credit hours of statistics. Contact the Office of Academic Affairs, HPER 121, for listing of approved classes. (When used in this manner, neither T691 nor T693 may be counted in the credits required for the degree.) At the discretion of the advisory committee, T592 may count toward total hours but not toward major or minor field requirements.

Option II HPER T592, T691 or T693, and one research skill from the following:

A. Language: Demonstrate reading proficiency in one foreign language, selected from French, German, or Russian,[1] by passing an examination given by the university or by taking two courses in one language designated for graduate students and earning at least a grade of B in each course (8 credits). 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 for which a TOEFL score of 550 or better is required.
B. Other appropriate language/research skills that are endorsed by the advisory committee and approved by the associate dean for academic program administration. Some examples of appropriate skill areas are Computer Science and Mathematics.

Ph.D.

This degree is offered by the School of Health, Physical Education, and Recreation in conjunction with the University Graduate School. Study in health behavior, human performance, and leisure behavior provides students with a comprehensive understanding of the field of interest and an intimate knowledge of research methodology.

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 from the University Graduate School, Kirkwood Hall 111. (See "General Requirements for Advanced Degrees" and the section titled "Health, Physical Education, and Recreation" in the University Graduate School Bulletin.)

Prerequisites

Although most applicants for the Ph.D. generally 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 course work. Such course work cannot ordinarily be counted toward the credits required for completion of the degree.

Major and Minor Course Work Requirements

Requirements totaling a minimum of 90 credits beyond the bachelor's degree include 30 credits in the major department, at least 15 credits in a cognate field (minor) outside the major department, 15 credits distributed among supportive electives, a substantial amount of course work in statistics and research methodology, and 20-30 credits 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 credit hours is flexible; however, provision must be made for at least one minor (normally 12-15 credit hours) outside the department in which the degree is being earned.

Distribution of Required Credits

Major area, 30 credits minimum
Minor, 15 credits
Supporting electives or second minor, 15 credits minimum
Dissertation, 20-30 credits
Electives, 0-10 credits
Research skills and languages, not counted in total credits
A minimum of 15 graduate credit hours must be completed outside the School of Health, Physical Education, and Recreation, excluding courses taken to complete the tool skills and languages requirement.
Total, 90 credits

All Ph.D. students must complete T590 and T591, or their equivalents, as prerequisites to the major work. Credit earned in T590 will not count toward the major or minor, but may be counted toward the total of 90 credits required for the degree.

HPER T591 or its equivalent will not count on the course prescription.

Independent courses such as readings, independent study, thesis, and practicum credit hours completed at another institution or as part of the master's program, may not be a part of the doctoral course prescription.

Research Skill Requirement

A candidate for the Ph.D. degree *must select one of the following research skill options.* A minimum grade of B (3.0) must be obtained in each course used in meeting this requirement. Credits earned in meeting research skill requirements may not be counted in the total credits required for the degree.

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

A. Advanced statistics courses, typically HPER T592, HPER T691, and HPER T693.
B. 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 advisor and approval of the associate dean of academic program administration.
C. Other appropriate research skills that have been endorsed by the doctoral advisory committee and approved by the associate dean for academic program administration. Some examples of other appropriate skill areas are Computer Science, Mathematics, and electronic techniques in Physics.

Option II Reading proficiency in the selected foreign language and at least 5 credit hours from research skill courses described below. Demonstration of reading proficiency is described in Option III.

A. Advanced statistics courses (6 credits). Students typically select two courses from among HPER T592, HPER T691, and HPER T693.

B. Other appropriate research skills that have been endorsed by the doctoral advisory committee and approved by the associate dean for academic program administration. Some examples of other appropriate skill areas are Computer Science, Mathematics, and electronic techniques in Physics.

Option III 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, for which a minimum TOEFL score of 550 is required. In addition, verification in English proficiency must be obtained from the Indiana University Center for English Language Training, Memorial Hall 330, (812) 855-6457. A special form requesting this action must be obtained from the Records Office, HPER Room 115.

Courses

The courses below represent the total offerings of the School of Health, Physical Education, and Recreation. Courses listed are not necessarily offered annually. 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; "R" means "recommended." Courses numbered 500 and above are for graduate students only. See "Interdepartmental and Technical Courses" following the departmental course descriptions.

Course prerequisites may originate in other schools of the university. A key to course codes found at the end of this bulletin can direct students to more information about such courses in other school bulletins and the *Schedule of Classes*.

Applied Health Science

Public Health Education

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 are 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. (Fall)

C403 Techniques of Public Health Education (3 cr.) The place of the teacher in community health education programs. Considers the needs of the program, various media and methods that may be employed, and place of existing agencies in the program. (Spring)

C416 Introduction to Health Counseling (3 cr.) Evaluates recent developments in mental health in relation to their implications for health education. Reviews the role of health educators in supportive listening, crisis intervention, and counseling and referral strategies. Special problem areas include obesity, aging and death, substance abuse, stress and depression, family planning, and disease. Open only to senior dietetics students or with permission of instructor.

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 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, 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; topics include 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.) Covers the organizational structure and function of public health programs at the local, state, and federal levels in relation to the current emphases on chronic disease control and health promotion. Official agencies, voluntary agencies, and health-related activities in the private sector are considered.

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. Examines chronic and communicable diseases of special concern in public health and discusses the role of education in disease control.

C512 Environmental Health Science (3 cr.) Components of environmental health and public sanitation programs. 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; topics include health risk appraisal; program design, implementation, and evaluation; employee health networks; and special instructional methods appropriate for the workplace. Reviews model employee health education programs from business and industry.

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

C516 Introduction to Health Counseling (3 cr.) Evaluates recent developments in mental health in relation to their implications for health education. Reviews the role of health educators in supportive listening, crisis intervention, and appropriate counseling and referral strategies. 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 on practical application, group involvement, and the use of resource personnel. Specific topics vary; course may be repeated for credit.

C518 The Nature of Addictive Disorders (3 cr.) Theories of addiction including the behavioral/psychological, biological/physiological, social/cultural, and other models. Addictions found in youth/adults including drugs, sex, and eating. Study of the Health Belief Model for prevention programming.

C589 Models and Theories of Health Behavior (3 cr.) Selected theories and models of health behavior relevant to the practice of health promotion are examined. Students will be expected to determine which theories or models are appropriate for given populations, intervention settings/resources, and health problems. The content will focus on models of individual and interpersonal health behavior.

C591 Public Health Statistics (3 cr.) An applied approach to the collection, organization, and interpretation of data pertinent to public health and vital statistics. The application of biostatistical methods, population data, morbidity and mortality rates, ratios, and life tables to public health.

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; course may be repeated for credit.

C640 Research in Public Health (3-5 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 (5-7 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; course 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 Education

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.

H163 Topics in Health (1-3 cr.) Issues of mental, emotional, and physical health discussed. Possible topics are adjusting to college life, understanding and preventing violence in America, and others. May be repeated for credit if topic differs.

H180 Stress Prevention and Management (3 cr.) Comprehensive course on stress management. Intended for college students from all fields of study. Applies several stress management techniques including time management, deep breathing, progressive muscular relaxation, yoga, and study skills. To benefit most from class, students must practice stress reduction techniques outside of class.

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.) Examines 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. (Spring)

H310 Health Care in Minority Communities (3 cr.) Provides a knowledge base for the consideration of the occurrence and distribution of disease, and the impact of related health policy within minority communities.

H311 Human Diseases and Epidemiology (3 cr.) Studies major communicable and noncommunicable disease processes that afflict modern humans, with emphasis on the etiology, epidemiology, preventive measures, and ecology of diseases. (Spring)

H315 Consumer Health (3 cr.) 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.

H318 Drug Use in American Society (3 cr.) An interdisciplinary approach to the study of drug use in American society. Examines 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.) Focuses on primary and secondary prevention of cancer. Topics include lifestyle and cancer, causes of cancer, types of cancer, methods of detecting cancer, methods of treating cancer, and public attitudes. Discusses economic and psychological problems involved with cancer.

H324 Gerontology: Multidisciplinary Perspectives (3 cr.) An overview of areas involved in the study of aging focusing on the health, psychological, and social aspects and policy issues. Includes the major theoretical approaches to aging and current research in these areas.

H326 AIDS and Other Sexually Transmitted Diseases (3 cr.) An introductory, nontechnical examination of the biological, medical, social, psychological, and ethical aspects of acquired immunodeficiency syndrome (AIDS), HIV infection, and other sexually transmitted diseases.

H327 Practicum in College Death Education (3 cr.) Examination of death education strategies and leading group discussions for HPER H220 Death and Dying.

H340 Practicum in College Sex Education (3 cr.) Examination of sexuality education strategies and leading group discussions for HPER F255 Human Sexuality.

H363 Personal Health (3 cr.) This survey course provides a theoretical and practical treatment of the concepts of disease prevention and health promotion. Covers such topics 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.

H401 Emergency Medical Technician (EMT)—Ambulance I (3 cr.) P: H160; Must be taken concurrently with H317 Topical Seminar: EMT Lab. This class prepares the students to care for patients in a variety of emergency settings. In order to take the Indiana State EMT Certification exam, students must complete this course, plus H317 (Topical Seminar: EMT Lab), and be at least 18 years of age.

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

H418 The Nature of Addictive Disorders (3 cr.) Theories of addiction including the behavioral/psychological, biological/physiological, genetic, medical/disease, multidimensional, social, cultural, and other

current models. Examines addictions found in youth and adults including alcohol, tobacco, and other drugs and behaviors such as eating disorders, gambling, and workaholism. Use of the Health Belief Model; development of a personal philosophy of addictive behaviors for application in prevention programming.

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; course 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 course qualifies one as Standard First Aid and Personal Safety Instructor.

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

H494 Research and Evaluation Methods in Health and Safety (3 cr.) General concepts and foundations of measurement, evaluation, and research; 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, including 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, 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.) Application of innovative strategies for the teaching of health education. Attention 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.) Recommends criteria for the organization, implementation, and evaluation of health education programs in schools within the areas of administration, health instruction, health services, and a healthful school environment. Discusses special roles and responsibilities of teachers, nurses, administrators, and other school and community personnel in promoting child health.

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

H512 Understanding the Medicated Student/Client (3 cr.) A non-medical introduction for teachers, administrators, agency personnel, and others who work with children or adults on sustaining prescription medications. Examines how such medications affect the performance of students or clients. 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.

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. Emphasizes practical application, group involvement, and the use of resource personnel. Specific topics vary; course 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. Discusses principles of teaching and counseling in drug education programs.

H519 Contemporary Issues in Health Promotion (3 cr.) Surveys a variety of contemporary issues related to lifestyle and health behavior. Issues 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.) Helps prepare educators and health-related personnel dealing with death education and/or dying and death in the work setting. Educational methodology and materials, helping/supportive strategies, and background content about death and dying.

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. Emphasis on the health educator's role in a consumer-based society.

H522 Women's Health (3 cr.) Examines the relationships of women to health and health care, with attention to health concerns unique to women and common to both sexes throughout the life span. Emphasizes current information related to women's health issues and the health educator's role in women's health.

H524 Gerontology: Multidisciplinary Perspectives (3 cr.) An overview of areas in the study of aging, focusing on health, psychological aspects, and policy issues. Includes theoretical approaches to aging and current research in these areas. In-depth literature reviews provide focus and enhanced knowledge of chosen areas. Cross-listed with Education P513. Cannot be repeated as Education P513.

H525 Computer Applications in Health Education (3 cr.) Computer applications specific to health education, 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.

H526 AIDS and Other Sexually Transmitted Diseases (3 cr.) In-depth examination of the health and social impact of AIDS and sexually transmitted diseases in the United States and worldwide, with particular attention to theoretical models of individual prevention behavior.

H527 Practicum in College Death Education (3 cr.) Includes the study of death education methodology, preparation of learning activities dealing with death and dying, evaluation of student papers, and leading discussion sections of H220 Death and Dying.

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 on history, symptoms of use and abuse, and the role of the health educator in prevention and referral.

H530 International Health (3 cr.) Major trends and issues related to international health, including health care systems, nutrition, family planning, distribution and nature of communicable and chronic diseases, and preventive measures in selected countries. Special emphasis on problems that can be prevented through health education programs.

H540 Practicum in College Sex Education (3 cr.) 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, 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.

Covers health-related questionnaires, interviews, telephone surveys, rating scales, knowledge and attitude instruments, and behavior inventories by health educators. Suggests guidelines for compiling, analyzing, summarizing, and reporting the results of evaluations.

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. Budgeting, contract administration, technical specifications, and strategies for locating funding sources. 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; course may be repeated for credit.

H640 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 completed under the direction of a faculty member. Internship experiences must be approved in advance and are available only upon completion of course work 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; course 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 and 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; course may be repeated for credit.

H740 Research in Health Behavior (1-10 cr.) P: Graduate GPA of at least 3.0 and consent 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.

H741 Readings in Health Behavior (1-10 cr.) P: Graduate GPA of at least 3.0 and consent 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 and doctoral student status. Reviews research techniques in health education and critiques examples of current and completed research projects and other professional literature. 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

S101 Introduction to Safety Science (3 cr.) Surveys the safety profession and examines the safety movement from a historical perspective. Provides a conceptual overview of public safety, industrial safety, traffic safety, recreational safety, and home safety. Discusses requirements and opportunities in the field of hazard control.

S151 Safety Codes and Standards (3 cr.) General industry codes, standards, and requirements developed as a result of the Occupational Safety and Health Act. Discusses 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 professional.

S201 Introduction to Industrial Hygiene (3 cr.) The concepts, principles, and techniques in the practice of industrial hygiene are presented. The identification, evaluation, and control of occupational health hazards are discussed. An orientation to selected instrumentation used to assess the workplace is provided.

S202 Fundamentals of Fire Protection (3 cr.) Reviews fire protection codes and standards, principles, and practices; fire theory, fire safe

design, fire protection systems and equipment, and fire hazards. Emphasis on the life safety aspect of fire protection.

S210 OSHA General Industry Standards (3 cr.) An introduction and analysis of the Occupational Safety and Health (OSHA) general industry standards as they apply to both the private and federal sectors. Includes an inspection practicum.

S212 Standards for Specific Industries (3 cr.) P: HPER S151 or S210. An analysis of OSHA standards for specific industries such as construction, agriculture, and maritime operations.

S230 Safety and Health Concepts in Business and Industry I (3 cr.) An introduction to and review of various administrative programs developed by companies at the basic, intermediate, and corporate levels to enhance the total safety program and to minimize loss.

S231 Safety and Health Concepts in Business and Industry II (3 cr.) P: HPER S230. A continuation of S230 in which engineering programs are examined and industrial evaluation techniques presented.

S251 Accident Investigation Analysis and Reporting (3 cr.) P: 9 cr. of HPER S-courses, including S210 or S230. 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.

S317 Topical Seminar in Safety Education (1-3 cr.) P: Consent of instructor. The topical seminars will relate to current issues in the field of safety education. Possible topics for this seminar are 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.

S332 Ergonomics and Human Factors (3 cr.) P: 12 credits of HPER S-courses, including S210 and S230. The application of ergonomic principles and human factors techniques to the design and evaluation of workplaces and equipment.

S340 Safety and Health Evaluation and Instrumentation (3 cr.) P: 12 credits of HPER S-courses, including S201 and S230. The selection, use, care, and maintenance of instruments used in the assessment and evaluation of health hazards found in the workplace environment are discussed. Involves practical experience in instrumentation calibration and use.

S345 Safety Program Management (3 cr.) P: 12 credits of HPER S-courses, including S210 and S230. Principles, theories, and concepts of safety and health program management with comparisons of past, present, and future management practices. Review of managing behavior of individuals, groups, and organizations. Focuses on managing a total safety program.

S350 School and Community Safety (3 cr.) For school teachers of all grades, principals, and community health educators. Addresses general safety education in the instructional program, program content, and accident causes, highlighting remedial action of importance to school and community education. Laboratory experiences on campus and in the community. For non-Safety majors only.

S352 Systems Safety Analysis (3 cr.) P: 12 cr. of HPER S-courses including S210 and S234. Theory and application of systems safety techniques using inductive and deductive logic diagramming. Operations and management of systems safety programs, systems safety mathematics and their interface with the computer.

S354 Hazardous Materials and Waste Control (3 cr.) P: HPER S201 and 9 credits of HPER S-courses. Introduction and review of hazardous material regulations and hazardous materials control methods, including hazardous wastes. Occupational and environment requirements and exposures, with 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.

S401 Hazard Control Engineering (3 cr.) P: HPER S101. Technical principles of safety and health hazard control. Emphasis on the design, selection, testing, and modification of hazardous agents and environments. Requisite codes, standards, and requirements for hazard control engineering.

S410 Advanced Industrial Hygiene (3 cr.) P: HPER S201 plus 12 credits of HPER S-courses; junior/senior standing. Provides definitive application of principles and concepts for the solutions of workplace health and physical hazards. Program management techniques are discussed. Research procedures and techniques are introduced through individual and group projects.

S415 Safety Education and Training (3 cr.) P: 15 credits of HPER S-courses; junior/senior standing. Review of procedures to develop, operate, and evaluate safety programs for management and employees. Covers all aspects of safety training (e.g., explosives, occupational safety and health, hazardous materials, and fire). Discusses how a company's safety training plan can meet federal and state guidelines.

S420 Motor Vehicle and Traffic Safety Engineering (3 cr.) P: 15 credits of HPER S-courses; junior standing. An introduction to federal and state motor vehicle and traffic safety standards. Addresses motor vehicle operations, inspection programs, roadway design and marking criteria, and traffic safety management. Driver behavior, vehicle characteristics, and environmental conditions are discussed. Traffic engineering techniques to resolve above problems are presented.

S425 Safety Program Administration (3 cr.) P: 15 credits of HPER S-courses; junior/senior standing. The concepts, principles, and techniques of effective administration are presented. Focus is on the role of safety professionals in administering a safety department, especially hiring, performance evaluation, budgeting, and acquisitions. Office organization and program elements are considered.

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.) Safety majors only; senior standing; consent of instructor. 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. S-F only.

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.

S502 Instructional Strategies for Safety Education (3 cr.) Approaches to the preparation and delivery of comprehensive instructional programs in safety settings; topics include 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; topics include theories of management and supervision, program planning, staffing, reporting, record keeping, and budgeting procedures. Analyzes management models and administrative functions for programs in schools, colleges, business, industry, and government.

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

S513 Safety Management in Business and Industry (3 cr.) Principles of safety management applicable to business and industrial settings, 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.

S517 Workshop in Safety Education (1-3 cr.) Interesting topics of relevance to individuals in safety education and related disciplines are discussed in workshop fashion under the direction of faculty members. Emphasis on practical application, group involvement, and the use of resource personnel. Specific topics vary; course 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; course 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 course work 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; course 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. Reviews research techniques in safety education and critiques examples of current and completed research projects and other professional literature. Particular attention is given to dissertations being planned or in progress. Only S-F grades given.

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. (Fall, odd years)

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.

F341 Effects of Divorce on Children (3 cr.) Examination of how divorce affects children. The class focuses on how to minimize these effects. The class includes both in-and out-of-class experiential exercises.

F345 Parent-Child Relations (3 cr.) P: HPER F150 or equivalent. Explores issues associated with parenting, and addresses the reciprocal processes and interdependencies among parents, children, and their multiple environments.

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

F355 Leading Family Process Discussion Groups (3 cr.) P: HPER F258 with B or better and interview with professor. This course is intended to give students with opportunity, under supervision, to lead a discussion group in family process. Students will guide small group discussion on a variety of family-related topics and assist with various administrative tasks related to that discussion.

F430 Professional Preparation in Human Development/Family Studies (3 cr.) P: Major in Human Development/Family Studies; junior or senior standing. Exploration of professional roles and career opportunities in human development/family studies. Addresses necessary skills and information related to the search for employment and/or graduate school.

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. Authorization of Instructor.

F441 Readings in Human Development/Family Studies (1-3 cr.) P: Authorization by instructor. Readings in human development/family studies to be conducted under the direction of a member of the faculty. Readings proposal must be approved in advance.

F442 Internship in Human Development and Family Studies (3-6 cr.) P: HPER F430; 2.5 overall minimum GPA; junior or senior standing; and, consent of HD/FS faculty sponsor. Observation and participation in community programs serving children, other individuals, and families. Application due by tenth week of previous semester. Open only to HD/FS majors. Only S-F grades given

F444 Fieldwork Experience in Human Development and Family Studies (1-10 cr.) Field experience through on-the-job and related opportunities in human development/family studies. Course requirements will be established by field experience supervisor. May be repeated for a total of 10 credit hours. Application due by tenth week of previous semester. Only S-F grades given. Requires authorization by instructor.

F449 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.

F450 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.

F452 Independent Study in Human Development and Family Studies (3 cr.) P: HPER F150, F258, or equivalent; consent of instructor. An in-depth investigation of some area within human development/family studies.

F453 Independent Study in Human Development and Family Studies (3 cr.) P: HPER F150, F258, or equivalent; consent of instructor. History of family life education; philosophy and rationale for curriculum development, including methods and source materials. Current and theory provide the basis for program planning relevant to contemporary developmental and family issues.

F454 Conceptual Frameworks in Human Development and Family Studies (3 cr.) P: HPER F150, F258, or equivalent. Conceptual overview and critique of major conceptual frameworks and theories in HD/FS. This course will consider social and historical contexts of conceptual frameworks as well as processes through which they emerge.

F457 Stress and the Family (3 cr.) P: HPER F150, F258, or equivalent; junior or senior standing. Research and theory on family stress. Introduces several theoretical models of family stress process and discusses work on stress. Emphasis on important aspects of the family's experience of stress, such as social support and coping in a family context.

F458 Family Law and Policy (3 cr.) P: HPER F150, F258, or equivalent. Major aspects of law, legal system, legal processes, and social policy as they relate to family life. Role of the legal system and family policy in the construction, maintenance, and termination of family systems.

F460 Grief in a Family Context (3 cr.) P: HPER F150, F258 or equivalent. Explores the grief process within the context of family. Grief as it is experienced as a family phenomenon and as an experience of individual family members. Incorporates human development and addresses grief in a variety of loss situations.

F517 Seminar in Human Development/Family Studies (1-3 cr.) P: varies depending on topic. Analysis and interpretation of various aspects of family study; stresses theoretical and/or empirical formulations with emphasis on critical discussion and evaluation. May be repeated twice for credit. Topics may vary.

F541 Effects of Divorce on Children (3 cr.) In-depth examination of how a parental divorce affects children both in the short term and years later. Particular focus is on how to minimize these effects and on how social attitudes and beliefs influence social policy.

F542 Internship in Human Development/Family Studies (3 cr.) P: Graduate GPA of at least 3.0. Professional internships in appropriate settings completed under the direction of a faculty member. Internship experiences must be approved in advance. Evaluation is on an S-F basis only.

F543 Family Life Education (3 cr.) Philosophy, principles, assumptions, and history of family life education, with emphasis on theoretically based curriculum development. Strategies, methods, and resources for developing curricula to address contemporary family life.

F546 Issues in Human Development/Family Studies (3 cr.) P: Consent of instructor; other prerequisites, depending on topic. 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.

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 or equivalent and consent of instructor. Philosophy, content, methods, resources, and evaluation that relates specifically to the teaching of sex education

F554 Conceptual Frameworks in Human Development/Family Studies (3 cr.) Critical examination and survey of major HD/FS theories and conceptual frameworks. Integrative analysis of the way contemporary research and practices are informed by theoretical bases. Addresses the interplay between basic tenets of theories/conceptual frameworks and the sociohistorical context in which they developed.

F555 Leading Family Process Discussion Groups (3 cr.) P: 3 credit hours of social science course work and interview with professor. Students will lead psycho-educational discussion groups in family process including family influences, communication, intimacy, parent-child relationships, loss, and divorce. Students will also be required to assist with various administrative tasks related to that discussion.

F556 Families and Health (3 cr.) The interface between the family and health systems. Explores relationship between family functions and various aspects of health and health care of family members. Emphasis on students' understanding of ways of using the strengths and overcoming the weaknesses of family systems in influencing health behavior.

F557 Stress and the Family (3 cr.) P: F150, F258, or equivalent. Research and theory on family stress. Discussion of models of family stress process and stress as an individual family member's experience. Emphasis on important aspects of the family stress such as social support, meaning construction, and coping in a family context. Includes implication for intervention.

F558 Workshop in Human Development/ Family Studies (3 cr.) P: HPER F150 or F258 or equivalent or consent of instructor. Topics of relevance to individuals in HD/FS and related disciplines are discussed in workshop fashion under direction of faculty. Emphasis on practical application, group involvement, and use of resource personnel. Specific topics vary; course may be repeated for credit.

F559 Special Problems: Human Development/ Family Studies (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.

F560 Grief in a Family Context (3 cr.) P: 6 credit hours of social science courses. Explores the grief process within a family context. Includes emotional, psychological, somatic, social, and spiritual aspects of grief. Addresses influence of family on individual grief. Incorporates human development as well as family process. Includes implications for practitioners.

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 Science/Dietetics

N120 Introduction to Foods (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; review of popular topics in nutrition. Not for students in dietetics or nutrition science.

N231 Human Nutrition (3 cr.) P: CHEM C100 or CHEM C101 or equivalents and BIOL 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.

N317 Topical Seminar in Nutrition/Dietetics (1-3 cr.) The topical seminars relate to current issues in the field of nutrition/dietetics. Possible topics for this seminar are 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 Food Chemistry (3 cr.) P: N120; CHEM C106 or equivalents. R: A course in organic chemistry. Advanced study of the chemical and physical properties of food as related to use, quality, and preparation. New food products, composition, and food technologies. Two and a half hours lecture weekly.

N321 Quantity Food Purchasing and Production (4 cr.) P: N120. Principles of menu planning, equipment selection, purchasing, food production, and cost control in institutions. Two hours lecture, six hours laboratory weekly. (Fall)

N322 Food Service Systems (2 cr.) Organization, personnel management, and administration in food service systems. Food service equipment needs.

N325 Food Chemistry Laboratory (2 cr.) Must be taken concurrently with N320. Application of principles and experimental procedures in food chemistry. Four hours laboratory weekly.

N331 Life Cycle Nutrition (3 cr.) Examines overall nutrition of life cycle: pregnancy, lactation, infancy, childhood, adolescence, adults, and the elderly. Focuses on nutritional status and nutrient requirements as well as

physiological changes in body function for all ages. Discusses special nutrition problems in each stage and contemporary nutritional issues.

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. (Fall)

N430 Advanced Nutrition I (3 cr.) P: N331 or N431; BIOL L330; and CHEM C341; or consent of department. Functions of nutrients in human metabolism; evaluation and fulfillment of nutritional needs; current literature. Emphasis on the energy nutrients: protein, carbohydrates, and energy.

N431 Nutrition in Disease—Diet Therapy (3 cr.) P: N231; PHSL P215; ANAT A215; junior class standing. R: CLAS C209. Dietary modifications for therapy in metabolic and pathological disorders with allowance for cultural patterns. (Spring)

N432 Advanced Nutrition II (3 cr.) P: N430 or consent of department. A continuation of N430. Nonenergy nutrients: water, vitamins, minerals, and as a focus, nutritional status.

N433 Diet Therapy Application (2 cr.) P or concurrent: N431. Application of principles of diet therapy through case study management and through designing and preparing modified diets. Cumulative experience of designing, following, and reporting on a modified diet.

N440 Research in Nutrition/Dietetics (1-3 cr.) Undergraduate research 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 (1-3 cr.) Field experience through on-the-job and related opportunities in nutrition / dietetics. Regular critique will be held with supervisors; written progress reports are required.

N520 Food Chemistry (3 cr.) P: CHEM C106 or equivalent. R: A course in organic chemistry. Advanced study in the chemical and physical properties of food as related to use, quality, and preparation. Students will conduct library research to prepare a critical review of selected topics in novel areas of food chemistry/technology.

N525 Food Chemistry Laboratory (3 cr.) Must be taken concurrent with N520. Application of principles and experimental procedures in food chemistry. Students will design and conduct an independent research project in food science in addition to weekly topical group laboratory experiments.

N530 Advanced Human Nutrition (4 cr.) P: N336, BIOL L330, CHEM C341, or consent of department. Functions of nutrients in human metabolism, evaluation and fulfillment of nutritional needs, and review of current literature.

N531 Nutrition in Disease—Diet Therapy (3 cr.) P: N231 and PHYS P215, or equivalents. Emphasis on the physiology, etiology, and dietary intervention in various diseased states. Includes in-depth analysis and reporting of a disease state and the role of diet and clinical research in its management.

N532 Nutritional Assessment and Analysis (3 cr.) P: N530. Gives students experience in following a prescribed diet, biological sample collection, laboratory analytical procedures, and data interpretation.

N533 Diet Therapy Application (2 cr.) P or concurrent: N531. Application of diet therapy principles. Includes food preparation, designing special diets, and evaluating case studies. Effect of lifestyle and socioeconomic variables.

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. 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; course may be repeated for credit.

N620 Nutrition in Sports (3 cr.) P: N231 and PHYS P215, or equivalents. The role of nutrition in athletic performance, especially the effects of various nutrition practices during training, competition, and recovery. Current concepts and controversies.

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.

Kinesiology

Professional Program

Athletics

A281 Recognition and Evaluation of Athletic Injuries (3 cr.)[1] P: H160, P280. Educates the student athletic trainer in principles and procedures of soft tissue evaluation of all major anatomic sites. Includes skill development in special tests for assessing musculoskeletal trauma.

A282 Strapping and Bandaging Techniques in Athletic Training (3 cr.)[1] Advanced course in the recognition of injuries and their need for support and bandaging. Lecture and demonstration of emergency procedures as well as general strapping and bandaging.

A361 Coaching of Football (1-2 cr.) P: P323 or consent 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: P323 or consent 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: P323 or consent 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: P323 or consent 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.

A366 Coaching of Gymnastics (1-2 cr.) P: P322 or consent of instructor. Practical and theoretical experiences in gymnastics: 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 consent of instructor. Theory and methods of coaching swimming and diving, covering technical, administrative, and organizational aspects of the process. Emphasis on fundamentals, conditioning, and coaching psychology.

A368 Coaching of Tennis (1-2 cr.) P: P323 or consent of instructor. Theory and methods of coaching tennis, covering technical, administrative, and organizational aspects of the process. Emphasis on fundamentals, tactics, conditioning, and conduct of practice sessions.

A369 Coaching of Golf (1-2 cr.) P: P323 or consent 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: P325 or consent 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: P325 or consent 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.)[2] 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 Principles and Techniques of Therapeutic Modalities (3 cr.) Physics and physiological principles behind the use of therapeutic modalities selected to treat the injured physically active person. The class

[1]Required of athletic training students and open also to HPER students above freshman level with consent of the instructor.

[2]Open only to students accepted into Athletic Training Program.

includes lecture, demonstration and laboratory experience in the application of therapeutic modalities.

A384 Principles and Techniques of Therapeutic Exercise (3 cr.) Principles in the use of therapeutic exercise techniques to treat the injured physically active person, to facilitate enhanced recovery and safe return to activity. Lecture, demonstration and laboratory experience in the principles of therapeutic exercise.

A386 Emergency Management of Athletic Injury/Illness (3 cr.)[1] An advanced program dealing with the acute phase of injury and illness. Included will be field evaluation of medical emergencies, such as cessation of breathing or circulation, shock, concussion, spinal injury to the athlete. Identification of injury and illness and treatment to be employed in the sports medicine setting.

A481 Practicum in Athletic Training (2 cr.)[2] Variety of experiences provided through assignments to university varsity sports, high school and middle school sports. 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.

A490 Organization and Administration of Athletic Training (2 cr.)[2] Aligns and defines the importance of the administration role in athletic training. Lectures and reports cover bookkeeping, budget management, athletic medical records, drug testing, and legal aspects of sports medicine.

A491 Senior Seminar in Athletic Training (1 cr.) Designed to assimilate all previous experience of the student athletic trainers as well as prepare them for the National Athletic Trainers' Association Certification Exam. Practical job-related skills with which the athletic trainer will be confronted will be addressed in this class.

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

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.

A584 Administration of Athletic Training (3 cr.) Provides classroom and practical experience in developing pre-athletic physical examinations; athletic training responsibilities as viewed by the administrator of athletic programs; certification examination requirements; and cardiopulmonary 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.

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.

A587 Athletic Training Principles for the Lower Extremity (3 cr.) Evaluation and advanced management of injuries to the lower extremity including, but not limited to, the foot, ankle, knee, hip, and sacroiliac joints. Assessment of gait, orthotic construction, and surgical procedures needed to correct severe injuries. Relevant orthopedic controversies concerning injury management.

A603 Practicum in Athletic Training (cr. arr.) P: Graduate GPA of at least 3.0; athletic training emphasis. Practical field experience under supervision; seminar sessions. Only S-F grades given.

Dance

D200 Dance in Elementary Education (1 cr.) Helps prospective teachers present a well-rounded program of rhythmic activities on the elementary level, including the use of dance movement as an expressive medium for children.

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: D331 and consent of instructor. Historical development of dance and related art forms, Renaissance through contemporary.

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[1] Required of athletic training students and open also to HPER students above freshman level with consent of the instructor.

[2] Open only to students accepted into Athletic Training Program.

Kinesiology

P140 Foundations of Physical Education (3 cr.) Introduction to kinesiology as a discipline and physical education as a subdiscipline for students interested in teaching physical education. Historical and philosophical perspectives on the teaching of physical education as a profession. Must be taken concurrently with P141.

P141 Fundamentals of Human Movement (2 cr.) Introduction to identification, analysis, and evaluation of fundamental motor patterns, progressions in skill development, and skills for effective teaching. Analysis, evaluation, and development of personal movement and sport skills. Must be taken concurrently with P140.

P200 Microcomputer Applications in Physical Education (3 cr.) A hands-on introduction to use of microcomputers as problem-solving tools in physical education. Application programs in word processing, spreadsheets, data management, and graphics applied to specific problems in physical education, athletics, and sports.

P203 Teaching Practicum in Physical Education (1 cr.) P: P140, P141. Supervised early experience in teaching physical education skills. Includes assisting in activity classes. Only S-F grades given. May be repeated.

P205 Structural Kinesiology (3 cr.) Overview of basic human body structures and functions appropriate for beginning students in physical education. Fundamental concepts concerning the interaction of biological and mechanical aspects of the musculoskeletal and neuromuscular structures. Emphasis on practical application to study and teaching of skilled human movement.

P211 Introduction to Sport Management (3 cr.) An examination of the broad spectrum of career opportunities available in the sport management profession. Special emphasis on 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.

P214 Basic Methods of Teaching Physical Education (3 cr.) P: P140, P141, and admission to PETE program. Introduction to teaching methods in physical education including writing goals, objectives, and lesson plans; peer teaching; self-evaluation of teaching; teaching and learning styles; skill analysis; and assessment. Includes observation and teaching experiences.

P216 Current Concepts in Physical Fitness (3 cr.) Introduction to physical fitness and the role of exercise in health and wellness. Understanding the concepts, principles, and guidelines for fitness exercise and related activities. Use of physical fitness assessment data to plan and carry out a personal fitness program.

P217 Exercise Leadership (3 cr.) P: Non-HPER major, participation in group exercise for two years and consent of instructor; HPER major, P216. Teaching and evaluating of a variety of group exercise sessions, including water exercise, slide, bench exercise, circuit training, and use of resistant equipment. Participation and practical application of knowledge.

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. Analysis of skills fundamental to all racquet sports (racquetball, squash, tennis, paddleball, badminton); emphasis on lead-up games.

P222 Teaching of Developmental Gymnastics (2 cr.) P: P140, P141. Teaching of gymnastics, with a focus on elementary, middle school, and junior high school children, using developmentally appropriate gymnastic activities. Instruction and analysis of skills and skill progressions in unit planing, error analysis, and correction.

P223 Teaching Stunts, Tumbling and Apparatus (2 cr.) P: HPER P140, P141, and admission to PETE program. Instruction and analysis of skills in stunts, tumbling and gymnastics, apparatus, and nontraditional elementary basic skills. Both performance and teaching techniques are stressed.

P224 Teaching of Dance Activities (2 cr.) Must be of sophomore standing. 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.

P280 Principles of Athletic Training and Emergency Care (2 cr.)[1] An introduction to the principles of injury prevention. Lecture and demonstration of emergency measures to treat, for example, fractures, sprains, dislocations, and spinal injuries. Skill training in bandaging, strapping, splinting techniques.

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[1]Required of freshmen with emphasis in athletic training.

P290 Movement Experiences for Preschool and Elementary School Children (2 cr.) Covers potential outcomes of preschool and elementary school motor development programs, how to implement such programs, and appropriate movement experiences for young children. Allows observation and teaching of young children in a structured gymnasium setting.

P313 Tools of Learning (1 cr.) P: P214. Methods and materials of cooperative, low-level, and lead-up games and activities and recreational, leisure, and adventure/challenge activities. Emphasis on use of such activities in developing and teaching units for all age groups.

P316 Theories of Advanced Conditioning (2 cr.) P: P216. Practical application of conditioning and physical training theory to teaching and coaching of sport and fitness activities using track and field as a model. Physiological aspects of physical training; biomechanical analysis of skills, skill progressions, and teaching techniques. Discusses interval, circuit, plyometric, and Fartlek training.

P317 Strength Training (2 cr.) Teaching and training methods, analysis of correct training techniques and error detection, and the physical adaptations related to strength and power training. Discusses how to design a comprehensive long-term training program based on the scientific foundations.

P318 Management of the Sport Enterprise (3 cr.) An introduction to management theory as it relates to sport delivery systems. Includes the study of organizational structure, leadership, motivation, ethics, and decision making. Application of theoretical material to managerial function of sport delivery organizations.

P320 Foundations of Team Activities I (2 cr.) Development of physical skills and teaching techniques of soccer and volleyball. Analysis of skills, progressions, drills, and unit planning skills.

P323 Teaching Individual and Dual Activities (2 cr.) P: P214. Teaching of a variety of individual and dual sports, games, and activities for K-12. Analysis of skills, progressions, error analysis and correction, teaching techniques, unit planning, skill assessment, and evaluation and teaching experiences.

P324 Recreational Sports Programming (3 cr.) Overview of the programmatic elements and techniques that currently exist in recreational sports, including 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: P214. Teaching of a variety of team sports, games, and activities for K-12. Analysis of skills, progressions, error analysis and correction, teaching techniques, unit planning, skill assessment, and evaluation and teaching experiences.

P326 Lifeguard Training and Water Safety Instructor (3 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.

P327 Administration, Maintenance, and Construction of Aquatic Facilities (3 cr.) Information in pool management, maintenance, and construction, with emphasis on the newest design information and construction techniques.

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.

P334 Cultural Diversity in American Sport (3 cr.) Examination of the historical and contemporary experiences and accomplishments of black athletes. Investigation of the impact of sociological variables on their social and athletic participation.

P340 Foundations of Team Activities II (2 cr.) Development of physical skills and teaching techniques of basketball and softball. Analysis of skills, progressions, and unit plans.

P391 Biomechanics (3 cr.) An introduction to the mechanics of human motion. Includes linear and angular kinematics and kinetics in the context of human motion; mechanics of fluids; mechanics of muscles; analysis of selected sports activities.

P392 Sport in American Society (3 cr.) An introduction to sport sociology, in which students critically examine American sport from a social context and analyze the interrelationship between sport and American culture. Lectures, discussions, videos, guest speakers, and investigative analyses.

P395 Practicum in Preschool and Elementary School Physical Education (2 cr.) Supervised teaching experiences in physical education with preschool and elementary school children. Course may be repeated.

P398 Adapted Physical Education I (3 cr.) Study of conditions that 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: P398. A practical learning experience in adapted physical education with handicapped children. Course may be repeated.

P401 Adapted Physical Education II (3 cr.) P: P205, P391, ANAT A215. 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.

P405 Introduction to Sport Psychology (3 cr.) An overview of the field, including psychological aspects of sport performance, coaching, and the relationship of exercise with mental health. Various theoretical orientations will be addressed with an emphasis on empirical research.

P409 Basic Physiology of Exercise (3 cr.) P: PHSL P215 or equivalent. 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 Issues in Sport Settings (3 cr.) P: BUS L201. An introduction to legal principles involved in sport. Tort liability including intentional tort, negligence, and product liability. Covers constitutional law issues, particularly as they relate to athletic eligibility, athletes' rights, sex discrimination and drug testing. Discussion of sport contracts.

P414 Professional Seminar in Physical Education (2 cr.) P: EDUC M314 and M456. Seminar for senior students in PETE. History and philosophy of physical education as it affects curriculum, grading, professional development, public relations, and other critical issues in teaching of physical education. Portfolio completion and exit interview.

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

P416 Corporate Fitness (3 cr.) P: P409. An overview of preventive and rehabilitative exercise programs, including types of programs, scope and philosophies of programs, and program offerings. An introduction to health/fitness evaluation, exercise prescription, and exercise leadership.

P418 Sport Marketing (3 cr.) P: P211 and BUS M300 or M301. Examination of the elements of the marketing mix as they pertain to the sport enterprise. Also includes the coverage of decision making and planning from the sport manager's perspective and the impact of corporate sponsorship on the delivery of sport.

P419 Fitness Testing and Programming (3 cr.) Provides a knowledge base and practical experiences in fitness testing, assessment, and exercise programming.

P420 Exercise Leadership and Instruction (3 cr.) The advanced theory and professional practice of exercise leadership, design of group and individual exercise sessions, supervision of participants, and modification of exercise prescriptions. Includes techniques of exercise adherence and practicum experience with cardiovascular and resistance programs.

P423 Financial Principles in Sport (3 cr.) An introduction to the basic financial and managerial accounting concepts necessary to be financially literate in the sport business industry. Examination of the various means for financing sport organizations.

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.

P428 Strategic Management in the Sport Industry (3 cr.) Study of the sport industry with an emphasis on developing an understanding of how firms with the sport industry develop and apply competitive strategies.

P438 Internship in Sport Communication (3 cr.) A field learning experience for senior sport communication majors. Only S-F grades given.

P439 Practicum in Sport Management and Marketing (1-3 cr.) Practical job-related learning experience in sport management or marketing under supervision of professional in area. Prior approval required. Only S-F grades given.

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

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

P448 Internship in Exercise Science (1-3 cr.) P: P409. 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 applicable to sport and athletic coaching. Helps 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: P205 or ANAT A215, PHSL P215, PSY P101, or consent of instructor. Open to juniors and seniors only. An examination of factors that affect the acquisition and performance of motor skills. Topics include perception, psychomotor learning, practice methods, and theories of neuromuscular integration.

P490 Motor Development and Learning (3 cr.) P: EDUC M314 or consent of instructor. Motor learning and development principles throughout the life span. Emphasis on observing and analyzing characteristic movement behavior, motor learning, and motor performance, 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 ongoing 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. Only S-F grades given.

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

K500 Special Topics in Physical Education (1-3 cr.) Selected topics in physical education.

K502 Youth Fitness and Sport (3 cr.) (Open to seniors with consent of instructor.) Overview of competitive sport activities for youth. Scientific approach to coaching youth, developmental considerations, coach as leader, competitive environment, and maximizing positive contributions of sport and competition.

K506 Computer Applications in Physical Education (3 cr.) Hands-on applications in the use of microcomputers as problem-solving tools in physical education. Programming applications and problems in physical education, sport sciences, administration, athletics, and research.

K510 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.

K511 Legal Issues in the Sport Environment (3 cr.) An introduction to legal principles involved in amateur sport. Constitutional law issues such as athletic eligibility, NCAA due process, gender discrimination, and drug testing. In-depth explanation of tort liability. Contracts in amateur sport settings.

K512 Issues in Professional Sport (3 cr.) An introduction to the business and legal issues confronting the professional sport industry today. Major topics include league organization and governance, collective bargaining, antitrust law, the influence of the media, and social issues pertinent to professional sport. Focuses primarily on the NFL, MLB, and NBA.

K513 Sport and Higher Education (3 cr.) Examination of contemporary issues in college sport in America, the historical foundation of college sports, and the role of sport in higher education. Discussion of possible reforms in collegiate athletics.

K514 Sport Marketing and Sponsorship (3 cr.) Examination of strategic market planning and its impact on sport marketing. Covers elements of the marketing mix, licensing and merchandising, event marketing, and sponsorship.

K515 Financial Analysis in Sport (3 cr.) P: T594 or equivalent. Exploration of current financial status within the main segment of the sport industry. Emphases placed on professional and collegiate sport. Topics include fee structures, financial ratios, financial impact analysis, attendance and price setting strategies, financial forecasting, relationships between financial analysis and strategic planning.

K516 The Sport Industry (3 cr.) A study of the sport industry with an emphasis on developing an understanding of how firms within the sport industry create a competitive advantage.

K521 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.

K522 The Role of Sports in Society (3 cr.) Significance of sports in society; examination of relationships between sports and other elements of the culture; how sports contribute to human welfare in an advanced technological society.

K523 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.

K525 Psychological Foundations of Exercise and Sport (3 cr.) Addresses theoretical and empirical aspects of topics, including exercise and mental health, anxiety and sport performance, "personology" and sport, overtraining, exercise adherence, and perceived exertion.

K530 Mechanical Analysis of Human Performance (3 cr.) P: ANAT A215 or equivalent; PHYS P201 recommended. Newtonian mechanics applied to human movement. Analysis of sports techniques.

K533 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.

K535 Physiological Basis of Human Performance (3 cr.) P: PHYS P215 or equivalent. A study of physiological changes that occur with exercise. Emphasis on the cardiorespiratory, muscular, and biochemical adaptations to training, and how these affect human performance. Physiological principles are applied to athletic training, adult fitness, weight regulation, and physical therapy.

K536 Obesity/Body Composition (3 cr.) P: PHYS P215 or equivalent. Study of a variety of contemporary issues related to obesity. Topics may include obesity and health risks, factors promoting fat deposition and metabolism, traditional versus nontraditional weight-loss programs, and adherence to weight-loss programs. Recommendations are presented for developing a comprehensive weight management program.

K537 Advanced Physiology of Exercise (3 cr.) P: PHSL P575. Advanced lecture/laboratory course on the regulation and integration of metabolic, cardiovascular, respiratory, endocrinological, and biochemical functions of the human body in response to exercise of all types, and the influences of the functions of the various organ systems of the body.

K541 Nature and Basis of Motor Skill (3 cr.) An overview of neural mechanisms underlying motor control. Application of neurophysiological principles to human motor performance.

K542 Neuromuscular Control of Movement (3 cr.) An overview of neural mechanisms underlying motor control. Includes applications of neurophysiological principles to human motor performance.

K545 Childhood Motor Development (3 cr.) Study of the developmental aspects of human performance, including the processes of growth and motor development from conception to adolescence. Emphasizes research on cognitive, affective, and psychomotor development and their impact on the motor behavior of children.

K546 Adolescent Motor Development (3 cr.) Study of the developmental aspects of human performance, including the processes of growth and motor development throughout adolescence. Emphasizes research on cognitive, affective, and psychomotor development and their impact on the motor behavior of the adolescent.

K547 Developmental Movement for Children (3 cr.) A developmental approach to the physical education of children, covering 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.

K550 Motor Assessment of the Exceptional Child (3 cr.) Neurologic bases and factor structures of motor ability in normal and exceptional populations; movement problems associated with specific syndromes; assessment of motor development with

structured and unstructured tests and checklists.

K551 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. Assessment of developmental levels and motor performance of handicapped individuals.

K552 Problems in Adapted Physical Education (3 cr.) A study of problems as they relate to philosophy, procedures, and practices in adapted physical education.

K555 Organization of Physical Therapy (3 cr.) Special fields of physical rehabilitation; use of exercise, massage, heat, water, electricity, various forms of radiation in public schools; some demonstrations.

K560 Exercise in Corporate Fitness and Wellness (3 cr.) An overview of preventive and rehabilitative exercise programs, including types of programs, scope and philosophies of programs, and program offerings. An introduction to health/fitness evaluation, exercise prescription, and exercise leadership.

K561 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.

K562 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.

K563 Cardiac Assessment in Exercise Testing (3 cr.) Physiology, assessment techniques, and interpretation of electrocardiography, echocardiography, nuclear cardiology, and cardiac catheterization at rest and during exercise.

K564 Exercise Prescription (3 cr.) Interpretation of health/fitness assessment for exercise prescription and the modification of the basic exercise prescription for aging populations, pregnancy, coronary heart disease, hypertension, hyperlipidemia, obesity, diabetes, chronic obstructive lung disease, end stage renal disease, and others.

K565 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.

K566 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.

K567 Exercise Specialist Practicum (1-3 cr.) The practice of exercise testing, exercise prescription, exercise leadership, program administration, and research design in the Indiana University Adult Fitness Program and/or the National Institute for Fitness and Sport.

K570 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.

K571 Administration of Physical Education (3 cr.) Prepares 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, and in-service programs.

K572 The Physical Education Curriculum (3 cr.) Influences on curricula. Designs for developing, revising, and evaluating physical education curricula. 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.

K573 Supervision in Physical Education (3 cr.) Principles of, problems in, and procedures for administering a city physical education program from the viewpoint of a city director or school administrator.

K574 Facilities for Physical Education, Recreation, Health, and Safety (3 cr.) Principles, terminology, and standards for planning, construction, use, and maintenance of facilities for indicated programs; standard authoritative references are studied and critically evaluated.

K575 Problems and Issues in Higher Education in Physical Education (3 cr.) Historical review; purposes of higher education at several levels and review of curriculum emphases at each level; problems of selection, guidance, placement, facilities; retention of personnel; methods and policies in higher education; pertinent issues and trends.

K576 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.

K600 Master's Thesis (1-5 cr.)

K601 Readings in Kinesiology (cr. arr.) P: Graduate GPA of at least 3.0. Guided readings for broadening information about and understanding of the profession.

K602 Independent Study and Research (cr. arr.) P: Graduate GPA of at least 3.0. Independent research conducted under the guidance of a graduate faculty member.

K603 Practicum in Physical Education (cr. arr.) P: Graduate GPA of at least 3.0. Practical field experience under supervision; seminar discussions. Only S-F grades given.

K604 Internship in Kinesiology (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.

K605 Internship in Sport Management (2-5 cr.) P: Graduate GPA of at least 3.0. Off-campus professional field experience in agency situation under qualified supervision. Offered only after completion of course work for master's degree. Only S-F grades given.

K606 Internship in Athletics (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.

K630 Biomechanics of Human Performance (3 cr.) P: P530 and PHYS P201 or equivalent. Study of the mechanical principles of human motion through detailed analysis and specific movements; general applicability of the principles. Forces, moments, stability, and linear and angular momentum.

K631 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.

K633 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.

K635 Cardiovascular and Respiratory Physiology of Exercise (3 cr.) A systems approach to the cardiopulmonary responses to acute and chronic exercise. Emphasis on the myocardial, circulatory, ventilatory, and respiratory adaptations associated with physical training, the unique characteristics of elite athletes, and the impact of the environment on pertinent parameters.

K636 Biochemical Adaptions to Exercise (3 cr.) A study of the biochemical adaptions that occur during acute exercise or as a result of prolonged exercise training, with emphasis on the biochemical regulators of intermediary metabolism. Laboratory techniques include bio-assay of blood-borne metabolites, muscle enzyme activity, and energy substrate storage/utilization.

K637 Intermediary Metabolism (3 cr.) An integrative analysis of the biochemical regulators of intermediary metabolism, with emphasis on the enzymatic, hormonal, and metabolic control of energy production in skeletal muscle. Biochemical principles are applied to human exercise performance.

K641 Topics in Motor Integration (3 cr.) P: K541. A discussion of current research concerns in motor integration.

K650 Rehabilitation of the Physically Disabled (3 cr.) Identification, analysis, and evaluation of physically disabling conditions; rehabilitation procedures, including muscle testing, therapeutic exercise, and exercise prescription.

K660 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.

K690 Seminar in Human Performance (Topics Vary) (1-3 cr.)

K691 Seminar in Physical Education (1-3 cr.) Problems in physical education.

K701 Readings in Human Performance (2-5 cr.) P: Graduate GPA of at least 3.0. Advanced readings from domestic and foreign publications in one or more areas, including biomechanics, physiology of exercise, and sports psychology (including motor learning and control).

K702 Research in Human Performance (cr. arr.) P: Graduate GPA of at least 3.0.

K705 Experimental Laboratory Techniques (2-5 cr.) Experimental investigation of problems in the area of human performance, including laboratory design and advanced research techniques.

K790 P.E.D. Dissertation (cr. arr.)

K799 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 Kinesiology. Emphasis on development of skill and knowledge pertinent to the activity.

E102 Aerobic Dance (1 cr.) A total fitness class that emphasizes cardiorespiratory conditioning, flexibility, muscular endurance, and coordination through rhythmical 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 AAHPERD. 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.

E106 Bass Fishing Techniques (1 cr.) The American public and bass fishing community wants to learn about basic and innovative techniques for catching large mouth bass. This course is an overview of techniques involved in catching bass, conservation of the species, and long range goals for its maintenance. Lecture only.

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. Emphasis on recreational aspects. 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.

E112 Bicycling (1 cr.) Beginning instruction in the principles of fitness through a cycling program. Fitness testing and cardiovascular training. Proper riding technique, safety, and other features of competitive and recreational cycling.

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 construction, lane condition, and automatic machines. Fee charged.

E119 Personal Fitness (1-3 cr.) Instruction in basic principles of conditioning and fitness. Emphasis on muscular strength, muscular endurance, flexibility, and cardiorespiratory endurance. For students without prior knowledge of conditioning methods.

E120 Adult Fitness Lectures (1 cr.) This course will help you to 1) understand exercise programs, 2) understand weight loss programs, and 3) develop strategies to adhere to your exercise program.

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, take-off, execution of the dive, and entry into the water. Emphasis on basic forward, backward, reverse, and twisting somersaults. 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 sabre and epee.

E130 Army Physical Fitness (2 cr.) The path to total fitness requires a combination of physical conditioning, mental conditioning, and common-sense dietary considerations. Army Physical Fitness is for those willing to accept a disciplined regimen proven to lead to total fitness. Not for the shy or obese.

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 I (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. 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. 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.

E145 Introduction to the Martial Arts (2 cr.) Introduction to the martial arts,including Karate, Hapkido, Jujutsu, Judo, Aikido, Kung-fu, Boxing, and Wrestling. Learn the core concepts of each art and gain a working understanding of what the martial arts are all about, and the differences between them.

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.

E148 T'ai Chi Ch'uan (1 cr.) Introduction to the slow movements of T'ai Chi Ch'uan. Course provides instruction in William C. C. Chen's 60 movement form, physics of body leverage, history, philosophy, and cultural context. One of the most popular forms of exercise in China.

E149 Judo (1 cr.) Beginning instruction in techniques for throwing, grappling, 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.

E154 Beginning Tap Dance (1 cr.) An introduction to the technique and styles of tap dancing, emphasizing rhythmic accuracy and efficiency of movement. Course will include history and appreciation of tap dance.

E155 Modern Dance (1 cr.) Beginning instruction in modern dance technique, stressing knowledge and application of movement principles essential to dance training.

E156 Introduction to Jazz Dance Technique (1 cr.) An introduction to the modern jazz style of movement as it integrates with sound biomechanical principles. Phrasing, dynamics, and other qualities will be discussed.

E159 Racquetball (1 cr.) Instruction in basic skills for beginning players. Includes both four-wall singles and doubles games.

E161 Riflery (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. 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.

E168 Swimming—Nonswimmers (1 cr.) Beginning instruction in self-rescue remedial swimming skills and several basic strokes. For students with no swimming skills.

E181 Tennis (1 cr.) Beginning instruction in the fundamental skills of serves and forehand and backhand strokes. Competitive play in women's, men's, and mixed doubles tennis.

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, including the overhand serve, bump, set, dig, and spike. Team offensive and defensive strategies.

E186 Wall Volleyball (1 cr.) Instruction in fundamental skills of wall volleyball, including the serve, set (with and without wall), bump, dig, and spike. Team offensive and defensive strategies.

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.

E196 Skiing—Alpine-Downhill (1 cr.) American Teaching Method-ATM-Direct Parallel: learn and practice modern parallel skiing method by using short skis in graduated lengths—starting from very short skis and progressing to standard length skis. Only S-F grades given.

E211 Intermediate Basketball (1 cr.) Review of fundamental basketball skills including passing, dribbling, shooting, rebounding, and defense. Instruction in the principles of motion offense including spacing, screening, rebounding, and passing. Instruction in man-to-man defense and zone defenses.

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. Uses dietary behavior modification techniques and an exercise program to achieve a gradual reduction and maintenance of ideal weight. Only S-F grades given.

E220 Training Theories for Endurance Events (1 cr.) Survey of theories and techniques associated with training for endurance type activities. Designed for the self-coached athlete and aspiring coach. Applicable to running, cycling, and swimming.

E230 Advanced Army Physical Fitness (2 cr.) P: E130 or consent of instructor. Continuing along the path to total fitness begun in E130, this course emphasizes the leadership aspect of Army Physical Fitness. Students will lead PT sessions, participate in and lead formation runs, and continue the disciplines regimen begun in E130.

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.

E245 Cultures and Traditions of the Martial Arts (2 cr.) Examination of the cultures and traditions that shape the martial arts of East Asia, with greatest emphasis on the influence of China upon her neighbors. Martial arts from India, Indonesia, Thailand, Korea, Japan, etc. will also be covered. Lectures and video.

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.

E248 Intermediate T'ai Chi Ch'uan (1 cr.) P: E148 or consent of instructor. This intermediate course examines the everyday practice of T'ai Chi Ch'uan. Course presents refinement of William C. C. Chen's 60 movement form, da lu, and push-hands. Provides examples of neutralizing, throwing, striking, and strategic and philosophic concepts.

E250 Karate—Intermediate (1 cr.) P: Yellow belt technical level or consent of instructor. Instruction in advanced applications of basic techniques and free fighting. Students should achieve technical level of green belt. Karate uniform required.

E254 Intermediate Tap Dance (1 cr.) P: E154 or consent of instructor. Second-level course in the technique and styles of tap dance and the use of tap dance steps to create original choreography. Development of tap dance as a musical and visual art form.

E255 Modern Dance—Intermediate (1 cr.) P: E155 or consent of instructor. Intermediate modern dance technique, stressing knowledge and application of movement principles essential to dance training.

E256 Intermediate Jazz Dance (1 cr.) P: E156, previous instruction, or consent of instructor. A continuation of instruction in the modern jazz style of movement introduced in E156. Special emphasis on movement efficiency, precision, and clarity of movement.

E264 Intermediate Sailing (1 cr.) Instruction in rigging and sailing a variety of boats. Students sail and control a boat in simulated emergencies and obtain ability in jury rigging. Students learn trapeezing skills and spinnaker trimming and reach an intermediate level of racing knowledge and skills. Only S-F grades given.

E270 Scuba (1 cr.) Introduction to scuba diving. Emphasis on safety and avoidance of potential dangers. A noncertification course.

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. Only S-F grades given.

E281 Tennis—Intermediate (1 cr.) Instruction in spin service, volley, lob, and advanced drive placement. Emphasis on singles and doubles playing strategies.

E283 Intermediate Skeet (1 cr.) Provides an entry into competitive skeet shooting with emphasis on the rules of the sport, mental, and physical preparation. Refine techniques and improve proficiency. E183 required prerequisite or permission of instructor. Fee charged.

E284 Intermediate Trap (1 cr.) The course provides an entry into competitive trap shooting with emphasis on the rules of the sport, mental, and physical preparation. Students refine techniques and improve proficiency. E183 required prerequisite or permission of instructor. Fee charged.

E347 Advanced Hapkido (1 cr.) Designed to give students an increased understanding and an appreciation of the art of Hapkido. Content emphasis involves advanced applications of hapkido techniques and self defense. Students should achieve the technical level of a blue belt in hapkido by mid-term and brown belt by finals.

E348 T'ui Shou (Push-Hands) (1 cr.) Introduction to the techniques, skills, and strategies of Tai Chi Ch'uan T'ui Shou (Push-Hands). Course provides instruction and practice of Yang Style. E248 required prerequisite or permission of instructor.

E350 Advanced Karate (1 cr.) Designed to give students an increased understanding and an appreciation of the art of karate and taekwondo. Content emphasis involves advanced applications of basic taekwondo techniques, one step sparring, forms, and introduction to free fighting. Students should achieve a technical level of a blue belt in taekwondo (Korean Karate) by mid-term and brown belt by finals.

E355 Modern Dance I Advanced (1 cr.) P: E255 or consent of instructor. Advanced techniques in modern dance with emphasis on performance of movement patterns and individual creative work.

E364 Sailboat Racing (1 cr.) Instruction and practical application of rules, techniques and strategies of sailboat racing for the experienced sailor. Techniques of setting the sailboat racing course and administration of running sailboat races. Fee charged.

E370 Scuba Certification (1 cr.) P: E270 or consent of instructor. Progresses 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. 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 Divemaster (2 cr.) P: E371 or advanced scuba certification. Advanced aspects of diving physics, physiology, diver stress, and rescue. Completes national training standards for certification.

E471 Underwater Exploration (1 cr.) P: E370 or national scuba certification. Topics include historic shipwrecks from "age of exploration" to today. Emphasis on documentation and interpretation of submerged cultural resources. Includes required mock-shipwreck pool session and two open water dives for recreational dive certification in underwater archeology.

E472 Scuba Instructor Development (2 cr.) P: E470 or divemaster certification. Instructor development course for recreational scuba diving. Participants will complete all basic requirements prior to standard national evaluation exams.

E475 Lifeguard Certification (1 cr.) Current certification by ARC in standard first aid and personal safety, CPR, and advanced life saving. 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.

R100 Institute on Americans Outdoors (1 cr.) The Bradford Institute on Americans Outdoors is a professional development conference focusing on latest trends, leadership modalities, and programs in outdoor- and adventure-based programs, including those for persons with disabilities.

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.

R236 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.

R237 Computers in Park, Recreation, and Tourism Management (3 cr.) An introduction to computer usage in parks and recreation services. Terminology, BASIC language, retrieval, and reference systems and management applications. Emphasis is on minicomputers.

R241 Wildflowers and Wild Edibles (2 cr.) Identification of wildflowers and wild edible plants. Activities include a weekend field trip, a chance to improve skills in identifying local plants, as well as a culinary experience in wild edibles.

R266 Management of Park and Recreation Facilities (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.

R270 Special Recreation Services (3 cr.) Discussion of 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/environmental 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. Assessment and evaluation of programs and leadership techniques. Students are strongly encouraged to take R367 immediately following this course.

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

R279 Outdoor Adventure Education (2 cr.) Experiential overview of the concepts and practices of outdoor adventure/challenge recreation, such as ropes courses, backpacking, canoeing, and survival skills. Course is conducted in an outdoor laboratory setting.

R280 Natural History (3 cr.) Investigation of general natural history and field ecology concepts in a laboratory setting. Weekly field trips.

R281 Landscape Horticulture (3 cr.) Provides basic information and skills that are fundamental in managing horticultural resources, with an emphasis on plants and the circumstances under which they grow well. Basic information about plant growth, reproduction, and propagation techniques in the greenhouse and outdoor setting.

R301 Internship Preparation (1 cr.) P: R272. Procedures, preparation of materials, and selection of an agency for internship. Only S-F grades given.

R305 Bradford Institute on American Outdoors (1 cr.) Held at Bradford Woods, this course requires attendance at a national conference held annually. Conference focuses on outdoor education, adventure challenge, camping and outdoor skill development. Two nights residency at Bradford Woods required and additional fee to cover registration at conference, lodging, and meals. One class arranged on campus prior to the conference.

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.

R320 Therapeutic Horticulture (3 cr.) For students of adjunct therapies to understand the use of horticulture for therapy and rehabilitation. Methods and techniques are presented with an interdisciplinary approach. The student will gain a basic knowledge of horticulture therapy and develop a working knowledge of program planning.

R322 Scientific Diver Certification (3 cr.) P: E270. Fundamentals necessary for safe and efficient diving during scientific investigations and surveys, including diving physics and physiology. Emphasis on knowledge, skills, and Scientific Diver Level I open water evaluation. Recreational diving certification available. Diving fee may be required.

R324 Recreational Sports Programming (3 cr.) Overview of programmatic elements and techniques in recreational sports. Topics include informal, intramural, club, extramural, and instructional sports programming; values of recreational sports; terminology and career opportunities in various recreational sport settings.

R326 Customer Service and Media Relations (3 cr.) Overview of practical approaches to customer service and the use of quality programs in providing these services to the public or clients.

R331 Leisure Education (3 cr.) Students develop an understanding of leisure and its relationship to lifestyles and the fabric of society.

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

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

R340 Leisure in Modern Society (3 cr.) Encourages a holistic and comprehensive understanding of the significance of leisure to the individual and society. Discusses the relationship between leisure and other disciplines such as psychology, sociology, health, economics, political science, and education.

R341 Camp Leadership and Management (3 cr.) Covers the historical, sociological, and psychological aspects of the organized camp movement as well as programming and administrative principles and practices. Emphasizes various organized structures.

R351 Convention Management and Meeting Planning (3 cr.) To enhance their effectiveness in the tourism and commercial recreation industry, students should extend this programming focus to include nonrecreational facilities and services, particularly those associated with various groups and types of meetings such as conventions, banquets, receptions, and special events.

R362 Therapeutic Communication (3 cr.) Students will develop competencies to help assure therapeutic communication needed for effective client relationships in clinical practice.

R363 Professional Internship (12-14 cr.) P: R367, R301, 2.3 GPA or better in the recreation and park administration or therapeutic recreation major, and consent of instructor. Laboratory or field experience. Only S-F grades given.

R365 Leisure and Aging (3 cr.) Explores the role of leisure in adult development with specific focus on the aging process, leisure needs, and leisure services. Basic concepts associated with leisure, aging, targeting leisure services, research, and public policy are presented in light of forecasting leisure demand in the 21st century.

R366 Therapeutic Interventions with the Elderly (3 cr.) Promotes understanding of elderly persons who are frail, vulnerable, infirm, or disabled and how activities may be used to reach treatment and rehabilitation goals with clients from these populations.

R367 Leisure Program Development (3 cr.) P: R272. Learning and applying the recreation program process for leisure delivery systems. Introduction to program activity plans, budgeting, and public relations.

R372 Interpretive Resources and Techniques (3 cr.) P: R271. Basic principles, philosophies, and methodologies of interpretation, outdoor education, and environmental education.

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

R379 Clinical Practice in Therapeutic Recreation (3 cr.) P: R378. Development of theoretically sound and effective treatment protocols; understanding of social/clincial psychological concepts related to leader transactions with clients in therapeutic recreation; coverage of clinical supervision.

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.

R390 Statistical Applications in Leisure Studies (3 cr.) Introduction to the principles and practices of research analysis. Statistics is the mathematical tool used to describe research observations and to make inferences. Emphasis will be placed on the concepts and assumptions behind a statistical test and in the test's mathematical description.

R391 Graduate Prerequisite in Recreation and Park Administration (3 cr.) An overview of the various disciplines within the field of Recreation and Park Administration intended for graduate students with minimal background in recreation and parks.

R398 Practicum in Recreational Sports (1 cr.) Designed to facilitate, through 25 contact hours, the acquisition of practical knowledge and experiences in the management of recreational sports programs.

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

R402 Senior Seminar in Recreation and Park Administration (1 cr.) Intensive study and culminating discussion of contemporary problems, techniques, and issues in recreation and parks. Inquiry will focus according to students' specialization in outdoor recreation, therapeutic recreation, tourism management, park and recreation management, or sport management.

R421 Underwater Science Techniques (3 cr.) Techniques for scientific investigation of underwater resources. History of underwater exploration, Abandoned Shipwreck Act, evolution of maritime technology, artifact identification, and dating criteria. Development of techniques for producing site plans and scientific field reports. Includes Scientific Diver Level II and sport diver Underwater Archaeology Certification. Underwater Science Certification may be earned concurrently.

R422 Marketing for Leisure Services (3 cr.) Application of economic and marketing principles to leisure service delivery systems. Emphasis on organizing and analyzing the marketing process and planning the marketing mix. For recreation majors with limited background in economics and marketing.

R423 Visitor Behavior (3 cr.) Examines the theory and findings of visitor and tourism research as it is conducted in such recreation and leisure settings as parks, museums, towns, historic sites, sporting facilities and resorts. Topics include visitor motivations, expectations, social interactions, and assessment. Students will learn nine techniques for gathering information from and about visitors.

R424 Shipwreck Parks as Underwater Museums (3 cr.) Shipwrecks, defined as submerged cultural resources, will be studied as museums underwater that warrant research and interpretation in situ. Legislative issues for the protection and preservation of historic shipwrecks. Emphasis on the development of historic shipwreck parks and preserves in the United States and the Caribbean.

R425 Strategies and Methods of Interpretation (3 cr.) Studies the theory and

practice of interpretation. Emphasizes historical and cultural interpretation.

R441 Legal Aspects of Recreation, Park, Tourism, and Sport Management (3 cr.) Provides students with basic understanding of legal liability, the risk management process, negligence, international torts, constitutional torts, strict liability, standard of care, attractive nuisance, and other legal subjects. Introduction to personnel and contract law; strategies for reducing the probability of litigation.

R450 Tourism Systems Planning (3 cr.) Components of the tourism-park recreation development system and the concepts of planning resource use at the larger-than-site scale. Physical and program factors important to development for visitor use.

R451 Fiscal Management for Leisure Service Organizations (3 cr.) Financing leisure products and services in public- and private-sector delivery systems. Emphasis on sources and methods of financing; forecasting cost and income; budgeting, pricing and fiscal management through use of computer technology.

R462 Organization and Management of Therapeutic Recreation Programs (3 cr.) Presents the foundation for systematic program design, implementation and management. Includes the development of program protocols.

R466 Management of Leisure Services (3 cr.) P: R367. An introduction to managing leisure service agencies in a dynamic and changing environment.

R468 Planning Park and Recreation Facilities (3 cr.) P: R266 and R272 or consent of instructor. Procedures for developing community comprehensive park and recreation plans and specific plans for parks including design characteristics for selected recreation and support facilities. Emphasis on planning policies and procedures, surveys, data gathering, and design concepts.

R471 Recreational Sports Personnel (3 cr.) P: R324. Techniques of recreational sports personnel management in systematically controlling recreational sports programs.

R472 Recreational Sports Management (3 cr.) P: R324. Exploration of the basic competencies pertaining 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. 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 (2 cr.) 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.) P: R367 and a statistics course. 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, ethical, historical, and cultural foundations for recreation in society; challenge of 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 public and not-for-profit agencies, with emphasis on leadership and management skills, including empowerment, leadership, envisioning, organizing, quality, and contemporary management issues.

R521 Computer Systems in Recreation and Park Administration (2 cr.) Introduction to computer usage in the recreation and park field. Emphasis on skills and knowledge necessary to communicate with programmers and analysts about administrative 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. For recreation majors with limited background in economics and marketing.

R523 Visitor Behavior (3 cr.) Examines the theory and findings of visitor and tourism research as it is conducted in recreation and leisure settings such as parks, museums, towns, historic sites, sporting facilities, and resorts. Topics include visitor motivations, expectations, social interaction, and assessment. Students will learn nine techniques for gathering information from and about visitors.

R525 Strategies and Methods of Interpretation (3 cr.) The theory and practice of cultural and historical interpretation as used in parks, museums, and other recreational and cultural institutions.

R530 Comprehensive Recreation Planning/ Park Design (3 cr.) Procedures for developing community comprehensive park

and recreation plans and specific plans for parks including design characteristics for selected recreation and support facilities. Emphasis on planning policies and procedures, surveys, data gathering, and design concepts.

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 (2-4 cr.) Provides administration master's candidates with an understanding of processes, requirements and expectations of the master's project. Ultimately to provide a head start to the completion of the master's project.

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 Recreation Resource Administration (3 cr.) Examination of holistic approaches to recreation resource administration. The resource management aspects will take an ecological and sociological approach to understanding complex problems and issues, management practices, resource policies, and allocation of resources. Special focus on legal and ethical aspects of resource management, environmental protection, personnel management, and budget formulation.

R543 Principles of Outdoor/Environmental Education (3 cr.) Basic principles, philosophies, and methodologies of both outdoor education and environmental education. Enables students to associate characteristics that relate to each field as well as aspects that differentiate both. Monthly field trips.

R560 Professional Development for Therapeutic Recreation (3 cr.) Contemporary principles and understanding for the delivery of therapeutic recreational service to special populations. Opportunities to refine personal and professional philosophy of therapeutic recreation.

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 purview of the social psychology of therapeutic recreation service. Emphasis on social and organizational behaviors relevant to therapeutic recreation. Students will develop competencies to assure therapeutic communication needed for effective relationships in clinical practice.

R563 Program Development and Consultation in Therapeutic Recreation (3 cr.) Concerns in developing and providing therapeutic recreational programs and consultation.

R565 Leisure and Aging (3 cr.) Explores the role of leisure in adult development with specific focus on the aging process, leisure needs, and leisure services. Basic concepts associated with leisure, aging, targeting leisure services, research, and public policy are presented in light of forecasting leisure demand in the 21st century.

R566 Therapeutic Interventions with the Elderly (3 cr.) Promotes understanding of elderly persons who are frail, vulnerable, infirm, or disabled and how activities may be used to reach treatment and rehabilitation goals with clients from these populations.

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. The role of sport in society, from a global perspective, is examined with particular emphasis on the recreational sport participant.

R572 Seminar in Recreational Sports (1 cr.) Focuses on the experiences that relate directly to the basic programmatic and administrative aspects of recreational sports. Various topics are discussed by faculty members and practitioners with specialized areas of expertise.

R580 Strategic Planning and Management in Recreation, Park, and Nonprofit Agencies (3 cr.) Study of strategic planning and management theory, application, and process. Review applications of strategy, planning for strategy, implementation of strategy, and use of strategic planning and management to achieve a desired future. Application of strategic planning and management principles in recreation, park, and nonprofit environments.

R599 Master's Thesis (5 cr.)

R640 Independent Study and Research (cr. arr.) P: Graduate GPA of at least 3.0. Independent research conducted under guidance of a graduate faculty member.

R641 Readings in Recreation (cr. arr.) P: Graduate GPA of at least 3.0. Restricted to advanced master's and director's degree students. Individualized advanced study of specific topics under faculty direction. Topic areas within which study contracts may be developed include park/recreation administration; recreational sports administration; therapeutic recreation; outdoor recreation; tourism; armed forces recreation; and resource management.

R642 Internships in Recreation and Parks (2-8 cr.) Supervised off-campus professional field experience in appropriate agencies or other approved settings. Only S-F grades given. Internships are available in the following areas of emphasis: park/recreation administration; recreational sports administration; therapeutic recreation; tourism; armed forces recreation; outdoor recreation; and resource management.

R643 Practicum in Recreation and Parks (cr. arr.) Field experience as specified in written individualized contracts with supervising faculty. Only S-F grades given. Practicums are available in the following areas of emphasis: park/recreation administration; recreational sports administration; therapeutic recreation; tourism; armed forces recreation; outdoor recreation; and resource management.

R667 Seminar in Recreation (1-3 cr.) Seminars in one or more of the following emphasis areas are as indicated each semester in the *Schedule of Classes*: park/recreation administration; recreational sports administration; therapeutic recreation; tourism; armed forces recreation; outdoor recreation; and resource management.

R701 Social Psychology of Leisure (3 cr.) P: R500 or consent of instructor. Students gain an understanding of the application of social psychology to one important aspect of human life—leisure behavior.

R702 Scholarship and Higher Education in Recreation and Leisure (3 cr.) This seminar covers trends and issues in higher education. In addition, trends and issues in the field are organized and discussed by area of Recreation and Park Administration (RPA) faculty expertise. RPA faculty attend seminar sessions in which they discuss their area of scholarship in the context of issues and trends affecting the profession and higher education.

R703 Inquiry Methodology in Leisure Behavior (3 cr.) An in-depth study of the realm of research in leisure behavior. Conceptual and methodological issues involved in problem formulation and application of appropriate designs.

R704 Doctoral Seminar: Leisure Behavior (3 cr.) Examination of issues in leisure behavior in a systematic and comprehensive way, using a multidisciplinary 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. Open to students pursuing the directorate or the doctorate. Research conducted under the director of and with the advance approval of a member of the graduate faculty in one of the following areas: park/recreation administration; recreational sports administration; therapeutic recreation; tourism; armed forces recreation; outdoor recreation; and resource management.

R741 Advanced Readings in Recreation (cr. arr.) P: Graduate GPA of at least 3.0. Restricted to doctoral students. Individualized advanced study of specific topics under faculty direction. Topic areas within which study contracts may be developed are: park/recreation administration; recreational sports administration; therapeutic recreation; tourism; armed forces recreation; outdoor recreation; and resource management.

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 vary from semester to semester but cover broad subjects that 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. 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 that facilitates 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 with 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.) Sources of revenue and budgetary procedures for public leisure service agencies. Fund management, financial analysis, purchasing, contractual agreements, and other fiscal 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: 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

EDUC M456 Methods of Teaching Physical Education (3 cr.)

EDUC M458 Methods of Teaching Health and Safety (3 cr.)

EDUC M480 Student Teaching: Senior High/Junior High/Middle School (1-16 cr.)

Faculty

Faculty Emeriti

Aldrich, Anita, *Professor Emerita of Physical Education and Professor Emerita of Education*

Andres, Ernest H., Jr., *Assistant Professor Emeritus of Physical Education*

Belisle, James J., *Associate Professor Emeritus of Kinesiology*

Billingsley, Hobart S., *Associate Professor Emeritus of Kinesiology*

Brantley, Herbert, *Professor Emeritus of Recreation and Park Administration*

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*

Cooper, John M., *Professor Emeritus of Physical Education*

Counsilman, James E., *Professor Emeritus of Kinesiology*

Davies, Evelyn A., *Professor Emerita of Physical Education*

Deppe, Theodore R., *Professor Emeritus of Recreation and Park Administration*

Endwright, John R., *Professor Emeritus of Physical Education*

Getchell, Leroy H., *Professor Emeritus of Kinesiology*

Hicks, Robert B., *Instructor Emeritus of Physical Education*

Johnson, Norma Jean, *Associate Professor Emerita of Kinesiology*

Lawson, Richard W., *Associate Professor Emeritus of Recreation and Park Administration*

Loft, Bernard I., *Professor Emeritus of Health and Safety Education*

Ludwig, Donald J., *Professor Emeritus of Health and Safety Education*

MacLean, Janet R., *Professor Emerita of Recreation and Park Administration*

Martin, W. Donald, *Associate Professor Emeritus of Recreation and Park Administration*

McAuley, Janet E., *Associate Professor Emerita of Physical Education*

Newberg, Sam, *Assistant Professor Emeritus of Physical Education*

Peterson, James A., *Professor Emeritus of Recreation and Park Administration*

Remley, Mary Lou, *Professor Emerita of Kinesiology*

Rillo, Thomas J., *Professor Emeritus of Recreation and Park Administration*

Ryser, Otto E., *Professor Emeritus of Physical Education*

Sherwin, Hilda A., *Assistant Professor Emerita of Kinesiology*

Strong, Clinton H., *Professor Emeritus of Kinesiology*

Summers, D. Dean, *Associate Professor Emerita of Physical Education*

Updyke, Wynn F., *Professor Emeritus of Kinesiology*

Faculty

Angermeier, Lisa K., M.S. *(Indiana University, 1992), Visiting Lecturer in Applied Health Science*

Austin, David R., Ph.D. *(University of Illinois, 1973), Professor of Recreation and Park Administration*

Bailey, William J., M.P.H. *(Indiana University, 1979), Associate Professor in Applied Health Science, part-time; Director of External Funding, Applied Health Science; Executive Director, Indiana Prevention Research Center; Co-director, Institute for Drug Abuse Prevention*

Bair, Susanne, P.E.D. *(Indiana University, 1991), Assistant Professor of Kinesiology, part-time, and Director of Development and External Affairs*

Bayless, Kathryn George, M.S. *(Indiana University, 1974), Director, Division of Recreational Sports, and Lecturer in Recreation and Park Administration, part-time*

Beeker, Charles D., B.A. *(Indiana University, 1975), Lecturer in Kinesiology, part-time, and in Recreation and Park Administration, part-time, and Director, Office of Underwater Science and Educational Resources*

Beerman, Thomas S., M.A. *(Ball State University, 1966),* Visiting Lecturer in Kinesiology

Behrman, Eric L., M.S. *(Indiana University, 1982), Adjunct Lecturer in Recreation and Park Administration*

Bell, Sam, B.S. *(University of Oregon, 1957), Head Track Coach and Assistant Professor of Kinesiology, part-time*

Bertuccio, Lucille, M.S. *(Indiana University, 1990), Lecturer in Recreation and Park Administration, part-time*

Billingham, Robert E., Ph.D. *(Virginia Polytechnic Institute and State University, 1979), Associate Professor of Applied Health Science*

Birch, David A., Ph.D. *(The Pennsylvania State University, 1990), Associate Professor of Applied Health Science*

Black, Robert E., M.S. *(Indiana University, 1985), Athletic Trainer and Lecturer in Kinesiology, part-time*

Brayley, Russell, Ph.D. *(Texas A&M University, 1990), Associate Professor of Recreation and Park Administration*

Brechue, William F., Ph.D. *(Indiana University, 1987), Associate Professor of Kinesiology*

Brewer, Brent M., M.S. *(Indiana University, 1997), Visiting Lecturer in Applied Health Science*

Brown, James R., Ed.D. *(Indiana University, 1973), Associate Professor of Kinesiology*

Bunn, Debra E., M.S. *(The Ohio State University, 1984), Lecturer in Recreation and Park Administration, part-time, and Director, Hilltop Gardens and Nature Center*

Burns, Donald J., M.S. *(Indiana University, 1972), Associate Professor of Kinesiology*

Burns, Joanna L., M.S. *(University of North Texas, 1994), Adjunct Lecturer in Recreation and Park Administration*

Burrus, S. Kay, Ph.D. *(University of Michigan, 1974), Associate Dean for Academic Program Administration of the School of Health, Physical Education, and Recreation; and Associate Professor of Kinesiology*

Carlson, Ronald P., P.E.D. *(Indiana University, 1971), Associate Professor of Kinesiology and Associate Professor of Education*

Chadwell, Heath M., M.P.H. *(Indiana University, 1997), Research Associate in Applied Health Science*

Chapin, G. Keith, Ph.D. *(Michigan State University, 1993), Visiting Assistant Professor of Kinesiology*

Cothran, Donetta J., Ph.D. *(University of Maryland, 1996), Assistant Professor of Kinesiology*

Cousins, Lucinda Fox, M.S. *(Northern Illinois University, 1973), Lecturer in Kinesiology*

Crowe, James W., Ed.D. *(Indiana University, 1979), Chairperson and Professor of Applied Health Science*

Crowley, Kathleen M., M.S. *(Indiana University, 1995), Research Associate in Kinesiology*

Daniels, Dennis E., Dr.P.H. *(University of Texas, 1990), Assistant Professor of Applied Health Science*

Dapena, Jesús, Ph.D. *(University of Iowa, 1979), Professor of Kinesiology*

Ellenberger, Norman D., M.A. *(Ball State University, 1959), Lecturer in Kinesiology, part-time*

Ellis, Nancy T., H.S.D. *(Indiana University, 1979), Associate Professor of Applied Health Science*

Engs, Ruth C., Ed.D. *(University of Tennessee, 1973), Professor of Applied Health Science*

Ferguson, Denise E., M.S. *(Indiana University, 1989), Lecturer, part-time in Applied Health Science*

Fielding, Lawrence W., Ph.D. *(University of Maryland, 1974), Professor of Kinesiology*

Fly, Alyce D., Ph.D. *(University of Illinois, 1991), Assistant Professor of Applied Health Science*

Fravel, Deborah L., Ph.D. *(University of Minnesota, 1995), Assistant Professor in Applied Health Science*

Furr, Michelle, M.A. *(Wichita State University, 1995), Research Associate in Applied Health Science*

Gallahue, David L., Ed.D. *(Temple University, 1970), Associate Dean for Academic Affairs and Research; and Professor of Kinesiology*

Garl, Tim C., M.A. *(University of Mississippi, 1979), Administrative Assistant to the Athletic Director and Instructor in Kinesiology, part-time*

Getz, Deborah A., M.S. *(Ohio University, 1990), Research Associate in Recreation and Park Administration*

Gilbert, Kathleen R., Ph.D. *(Purdue University, 1987), Associate Professor of Applied Health Science*

Grove, Catherine A., Ph.D. *(University of Missouri, 1990), Clinical Associate Professor of Kinesiology, and Athletic Trainer*

Hamm, Gwendolyn Ann, M.S. *(Indiana University, 1972), Associate Professor of Kinesiology*

Haven, Betty H., P.E.D. *(Indiana University, 1977), Assistant Professor of Kinesiology, part-time*

Hawkins, Barbara A., Re.D. *(Indiana University, 1979), Associate Professor of Recreation and Park Administration*

Henson, Philip L., Ph.D. *(Indiana University, 1976), Associate Professor of Kinesiology, part-time, and Assistant to the Chairperson, Kinesiology*

Howerton, Mollie W., M.S. *(Indiana University, 1997), Visiting Lecturer in Applied Health Science*

Hronek, Bruce B., M.L.S. *(Antioch School of Law, 1983), Professor of Recreation and Park Administration, part-time, and Director, Recreation Resources Policy Study*

Jamieson, Lynn, Re.D. *(Indiana University, 1980), Associate Professor and Assistant Chairperson of Recreation and Park Administration*

Jastremski, Chester A., M.D. *(Indiana University, 1968), Research Associate in Kinesiology, part-time*

Kellum, Nicholas P., Ed.D. *(Indiana University, 1996) Associate Dean, School of Health, Physical Education and Recreation; Dean, School of Physical Education, IUPUI; Professor of Physical Education*

Knapp, Douglas H., Ph.D. *(Southern Illinois University, 1994), Assistant Professor of Recreation and Park Administration*

Knapp, Julie C., M.S. *(Indiana University, 1997), Visiting Lecturer in Recreation and Park Administration*

Knight, Robert M., B.S. *(The Ohio State University, 1962), Head Basketball Coach and Professor of Kinesiology, part-time*

Koceja, David M., Ph.D. *(Indiana University, 1989), Associate Professor of Kinesiology*

Lara, Mercedes M., J.D. *(Thomas M. Cooley Law School, 1995), Visiting Assistant Professor of Kinesiology*

Lawrence, Robert E., M.S. *(Indiana University, 1968), Instructor in Kinesiology*

Lewandowski, Cheryl L., ABD *(Indiana University), Research Associate in Kinesiology*

Lincoln, Margaret E., M.S. *(Northern Illinois University, 1989), Lecturer in Recreation and Park Administration, part-time*

Lindeman, Alice K., Ph.D. *(Syracuse University, 1986), Associate Professor of Applied Health Science*

Lorezen-Huber, Lesa M., Ph.D. *(University of Nebraska, 1989), Assistant Professor of Recreation and Park Administration, part-time*

Lueken, Joseph S., M.S. *(University of Arizona, 1990), Lecturer of Kinesiology, part-time, and Assistant Athletic Trainer*

Martin, Dominic J. *(Sports Diploma, Beth Technical College, 1987), Lecturer, part-time in Recreation and Park Administration*

Masberg, Barbara A., Ph.D. *(Oregon State University, 1992), Assistant Professor of Recreation and Park Administration*

McCormick, Bryan P., Ph.D. *(Clemson University, 1993), Assistant Professor of Recreation and Park Administration*

McLean, Daniel D., Ph.D. *(Kansas State University, 1978), Associate Professor and Assistant Chairperson of Recreation and Park Administration*

Meier, Joel F., Re.D. *(Indiana University, 1973), Chairperson and Professor of Recreation and Park Administration*

Mikels, Rita A., A.S. *(Indiana State University, 1992), Lecturer in Applied Health Science, part-time*

Miller, K. Michelle M.S. *(Indiana University, 1996), Visiting Lecturer in Kinesiology*

Mindheim, Arthur D., P.E. Dir. *(Indiana University, 1979), Assistant Professor of Kinesiology*

Mispagel, Kathleen M., M.S. *(Indiana University, 1995), Research Associate in Recreation and Park Administration*

Mobley, Tony A., Re.D. *(Indiana University, 1965), Dean of the School of Health, Physical Education, and Recreation, and Professor of Recreation and Park Administration*

Morales, Nellie E., Ph.D. *(University of Texas at Austin, 1991), Assistant Professor of Recreation and Park Administration*

Morris, Harold H., P.E.D. *(Indiana University, 1972), Chairperson and Professor of Kinesiology*

Mull, Richard F., M.S. *(West Virginia University, 1968), Director of the Tennis Center and Outdoor Pools, and Special Assistant to the Dean, and Assistant Professor of Kinesiology, part-time*

Myers-Zietlow, Merrianne, M.S. *(Indiana University, 1982), Lecturer, part-time in Applied Health Science*

Nakornkhet, Nangnoy, H.S.D. *(Indiana University, 1987), Research Associate and Assistant Professor, part-time in Applied Health Science*

Nevins, James P., M.D. *(autonomous University of Guadalajara, 1972), Professor of Kinesiology, part-time, and Director of Sports Medicine*

Niles, Christopher H., M.S. *(Indiana University, 1996), Lecturer, part-time in Recreation and Park Administration*

Nowicke, Carole E., M.L.S. *(University of Maryland, 1986), Visiting Assistant Librarian in Applied Health Science*

Parham, James B., M.P.A. *(American University, 1992), Lecturer in Recreation and Park Administration, part-time*

Piercy, Robert J., Ed.D. *(Indiana University, 1974), Assistant Professor of Applied Health Science, part-time, and Director, Hazard Control Program*

Pogue, Mark A., M.S. *(Indiana University, 1989), Visiting Lecturer in Applied Health Science*

Poppy, Wendeline Kay, M.S. *(University of North Carolina, 1985), Athletic Trainer and Lecturer in Kinesiology, part-time*

Price, Kari L., M.S. *(Ball State University, 1991), Lecturer in Recreation and Park Administration, part-time, and Naturalist at Bradford Woods*

Raglin, John S., Ph.D. *(University of Wisconsin, 1988), Associate Professor of Kinesiology*

Rhine, Samuel A., M.A. *(Indiana University, 1972), Adjunct Assistant Professor in Applied Health Science*

Ridenour, James M., M.S. *(Indiana University, 1965, and Colorado University, 1972), Professor of Recreation and Park Administration, part-time, and Director, Eppley Institute*

Robb, Gary M., M.S. *(University of Utah, 1968), Associate Professor of Recreation and Park Administration, part-time, and Director, Bradford Woods*

Rogers, Donald E., M.S. *(Indiana University, 1992), Visiting Lecturer in Recreation and Park Administration*

Ross, Craig M., Re.D. *(Indiana University, 1980), Associate Professor of Recreation and Park Administration*

Ross, John M., M.S. *(Indiana University, 1963), Assistant Professor of Recreation and Park Administration, part-time, and Special Assistant to the Dean*

Russell, Lisa A., Ph.D. *(University of California, Los Angeles, 1995), Assistant Professor of Applied Health Science*

Russell, Ruth V., Re.D. *(Indiana University, 1984), Associate Dean of the Faculties, and Professor of Recreation and Park Administration*

Sailes, Gary A., Ph.D. *(University of Minnesota, 1984), Associate Professor of Kinesiology*

Schrader, John W., M.A. *(University of Washington, 1975), Assistant Professor of Kinesiology, part-time; Head Athletic Trainer, Intercollegiate Athletics; and Coordinator, Athletic Training Program*

Seffrin, John R., Ph.D. *(Purdue University, 1970), Professor of Applied Health Science*

Sharpless, Daniel R., Re.Dir. *(Indiana University, 1970), Coordinator of Recreation Resource Computing Program, and Lecturer in Recreation and Park Administration, part-time*

Shepley, Stuart G., M.S. *(Indiana University, 1989), Lecturer in Recreation and Park Administration, part-time, and Director of Professional Development, Bradford Woods*

Sherwood-Puzzello, Catherine M., M.A. *(Ball State University, 1989), Research Associate, and Lecturer, part-time in Applied Health Science*

Shier, Nathan W., Ph.D. *(Michigan State University, 1975), Associate Professor of Applied Health Science*

Silverman, Lois H., Ph.D. *(University of Pennsylvania, 1990), Assistant Professor of Recreation and Park Administration*

Skinner, James S., Ph.D. *(University of Illinois, 1963), Professor of Kinesiology*

Smith, W. Kip, M.Ed. *(University of Arizona, 1974), Athletic Trainer and Lecturer in Kinesiology, part-time*

Solis, Margarita, M.S. *(Case Western Reserve University, 1989), Lecturer in Recreation and Park Administration, part-time*

Stager, Joel M., Ph.D. *(Indiana University, 1980), Associate Professor of Kinesiology and Director, Human Performance Laboratories*

Surburg, Paul R., Ph.D. *(University of Iowa, 1972), Professor of Kinesiology*

Suren, Asuncion S., Ed.D. *(Temple University, 1991), Assistant Professor of Recreation and Park Administration*

Tai-Seale, Thomas S., Ph.D. *(University of California, Los Angeles, 1993), Assistant Professor of Applied Health Science*

Torabi, Mohammad R., Ph.D. *(Purdue University, 1982), Chancellor's Professor and Assistant Chairperson of Applied Health Science*

Ulrich, Beverly, Ph.D. *(Michigan State University, 1984), Associate Professor of Kinesiology*

Ulrich, Dale Allen, Ph.D. *(Michigan State University, 1981), Associate Professor of Kinesiology*

Unger, Debra S., M.S.W. *(New York University, 1995), Lecturer, part-time in Recreation and Park Administration*

Vardaxis, Vassilios G., Ph.D. *(McGill University, 1995), Assistant Professor of Kinesiology*

Wallace, Janet Patricia, Ph.D. *(The Pennsylvania State University, 1981), Associate Professor of Kinesiology and Director, Adult Fitness Program*

Willett, Michael S., M.S. *(Indiana University, 1987), Lecturer in Kinesiology, part-time, Manager President's Challenge/AAU Fitness Programs, and Coordinator of Elective Program*

Wolter, Stephen A., M.S. *(Indiana University, 1980), Lecturer in Recreation and Park Administration, part-time*

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 Kinesiology*

Young, Sarah J., M.S., *(Indiana University, 1987), Visiting Lecturer in Recreation and Park Administration*

Alumni Association

Officers

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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 878 degree programs, the university attracts students from all 50 states and around the world. The full-time faculty numbers almost 4,000 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 institutions of higher education in the Midwest. It serves more than 91,000 students on eight campuses. The residential campus at Bloomington and the urban center at Indianapolis form the core of the university. Campuses in Gary, Fort Wayne, Kokomo, New Albany, Richmond, and South Bend join Bloomington and Indianapolis in bringing an education of high quality within reach of all of Indiana's citizens.

General Policies

Equal Opportunity/Affirmative Action Policy of Indiana University

Indiana University pledges itself to continue its commitment to the achievement of equal opportunity within the university and throughout American society as a whole. In this regard, Indiana University will recruit, hire, promote, educate, and provide services to persons based upon their individual qualifications. Indiana University prohibits discrimination based on arbitrary consideration of such characteristics as age, color, disability, ethnicity, gender, marital status, national origin, race, religion, sexual orientation, or veteran status.

Indiana University shall take affirmative action, positive and extraordinary, to overcome the discriminatory effects of traditional policies and procedures with regard to the disabled, minorities, women, and Vietnam-era veterans.

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 published in a handbook, *Code of Student Rights, Responsibilities, and Conduct*, 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 a designated administrative representative). Disposition at each level is final.

Undergraduate Admissions Policy

Indiana University has adopted the following admissions policy to ensure that undergraduate students are properly prepared for college work. These standards seek to ensure either adequate academic preparation in high school or evidence of unusual motivation on the part of each student admitted to the university. Applicants for admission to Indiana University are expected to meet the following criteria.

Freshman 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.

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

(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.
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]

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

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

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

Transfer to Other Indiana University Campuses

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

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

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

1. Inform your academic advisor of your decision as soon as possible. Degree requirements may vary from one campus to another but if your advisor 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 advisor) at the campus you plan to attend. Discuss your plan and ask about any special procedures. For example, students transferring 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 preenrollment procedure at the other campus, you should plan to take advantage of it. Contact the registrar of the other campus to determine whether you can fulfill any of these responsibilities by phone. Your registrar has a direct telephone line to all other registrars.
4. When you arrive on the new campus, contact your assigned academic adviser or department chairperson as soon as possible. Discuss your academic progress to date and the additional course work required for your program.

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

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

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

1. "Residence" as the term, or any of its variations (e.g., "resided"), as used in the context of these rules, means the place where an individual has his or her permanent home, at which he or she remains when not called elsewhere for labor, studies, or other special or temporary purposes, and to which he or she returns in seasons of repose. It is the place a person has voluntarily fixed as a permanent habitation for himself or herself with an intent to remain in such place for an indefinite period. A person at any one time has but one residence, and a residence cannot be lost until another is gained.
   (a) A person entering the state from another state or country does not at that time acquire residence for the purpose of these rules, but except as provided in rule 2(c), such person must be a resident for 12 months in order to qualify as a resident student for fee purposes.
   (b) Physical presence in Indiana *for the predominant purpose* of attending a college, university, or other institution of higher education, shall not be counted in determining the 12-month period of residence; nor shall absence from Indiana for such purpose deprive a person of resident student status.
2. A person shall be classified as a "resident student" if he or she has continuously resided in Indiana for at least 12 consecutive months immediately preceding the first scheduled day of classes of the semester or other session in which the individual registers in the university, subject to the exception in (c)[1] below.
   (a) The residence of an unemancipated person under 21 years of age follows that of the parents or of a legal guardian who has actual custody of such person or administers the property of such person. In the case of divorce or separation, if either parent meets the residence requirements, such person will be considered a resident.[1]
   (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.[2]
   (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."[2]
   (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

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[1]Invocation of the provision in Rule 2(a) that applies to cases of divorce or separation requires appropriate legal documentation.

[2]Rules 2(b) and 2(c) apply only to unemancipated persons under 21 years of age.

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

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

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

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

Fees

The instructional fees listed here were approved at the March 1998 meeting of the Trustees of Indiana University. 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 instructional 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.

INSTRUCTIONAL FEES	Indiana Resident	Nonresident
	Bloomington Campus	
Undergraduate[1]	$1,812.70 flat fee/semester for 12 to 17 credit hours $113.15/credit hour under 12 or over 17	$5,933.20 flat fee/ semester for 12 to 17 credit hours $370.80/credit hour under 12 or over 17
Graduate and Professional[1]		
Business–M.B.A. Program[2]	$4,116.00/semester	$8,235.15/semester
Business[3]	$261.35/credit hour	$522.85/credit hour
Law	$210.70/credit hour	$540.40/credit hour
Optometry	$185.50/credit hour	$515.20/credit hour
Public and Environmental Affairs—M.P.A. and M.S.E.S. Programs	$180.00/credit hour	$488.00/credit hour
Other	$152.90/credit hour	$445.40/credit hour
Independent Study (Correspondence)	$93.00/credit hour	$93.00/credit hour
Dissertation research (G901)[4]	$100.00/semester	$100.00/semester
Auditing (no credit)	$25.00/credit hour	applicable credit hour rate
Distance Education Special Courses[5] for Schools of Education; and Health, Physical Education, and Recreation		
Undergraduate	$113.15/credit hour	$113.15/credit hour
Graduate	$152.90/credit hour	$152.90/credit hour
	Indianapolis Campus	
Undergraduate[1]	$110.50/credit hour	$339.10/credit hour
Graduate and Professional[1]		
Business	$238.50/credit hour	$477.00/credit hour
Dentistry	$11,500.00/year	$24,630.00/year
Engineering	$161.70/credit hour	$462.20/credit hour
Law	$203.80/credit hour	$495.25/credit hour
Medicine	$12,730.00/year	$29,150.00/year
Nursing	$150.10/credit hour	$433.00/credit hour
Social Work	$152.90/credit hour	$440.90/credit hour
Other	$150.10/credit hour	$433.00/credit hour
Dissertation research (G901)[4]	$100.00/semester	$100.00/semester
Auditing (no credit)	applicable credit hour rate	applicable credit hour rate
Distance Education Special Courses for Allied Health Histotechnology		
Undergraduate and Graduate	$110.45/credit hour	$110.45/credit hour

[1] Includes credit courses in the School of Continuing Studies.
[2] M.B.A. students enrolled in 9 or more credit hours of business courses will be assessed a flat rate. Enrollment in any courses other than business will be assessed on a per-credit-hour basis.
[3] Graduate business credit hour rates apply to (a) M.B.A. students enrolled in fewer than 9 credit hours of business courses, and (b) students enrolled in a doctoral business program.
[4] To keep their candidacies active, doctoral students with 90 credit hours or more and Master of Fine Arts students with 60 credit hours or more may enroll in G901 for a flat fee of $100. Also, they must have completed all graduate degree requirements except for the dissertation or final project/performance. Enrollment in G901 is limited to six times. Students who do not meet these criteria pay the applicable credit hour rate for dissertation research.
[5] In addition to instructional fee rates, course fees of $90.00 for Education and $75.00 for HPER will be assessed.

INCIDENTAL FEES[6]	Bloomington Campus	Indianapolis Campus
Application for admission		
Domestic, undergraduate	$35.00	$35.00
Domestic, graduate	$40.00	$35.00
International	$40.00	$55.00
Deferment service charge[7]	$22.00	$22.00
Health service fee[8]	$70.50/semester $30.25/summer I $40.25/summer II	optional
Late payment charge	$50.00/semester	$11.00/month
Late program change[9]	$16.50/course added or dropped	$18.50/course added
Late registration[10]	$50.00 to $90.00/semester $50.00/summer session	$40.00 to $100.00/semester $40.00 to $62.00/summer session
Student activity fee[11]	$25.50 or $51.05/semester $12.75 or $25.50/summer session	$14.45 or $24.45/semester $25.75/semester for Athletic Development
Technology fee, fall or spring semesters[12]		
Undergraduate	$25.00, $50.00, $100.00	$26.78, $53.56, $80.35
Graduate/professional, nondegree students	$12.00, $25.00, $50.00	(varies)
Technology fee, summer sessions[13]		
Undergraduate	$12.50, $25.00, $50.00	$26.78, $40.17
Graduate/professional, nondegree students	$6.00, $12.50, $25.00	(varies)
Transcripts	$7.00	$7.00

[6]Applicable to both in-state and out-of-state students.
[7]Fee is assessed if deferred billing option is elected.
[8]The health fee is assessed each semester/session on the Bursar's bill for all day and evening students enrolled in more than 3 credit hours. Eligible individuals not covered by the health fee will be seen on a fee-for-service basis.
[9]After drop/add period (100 percent refund period), students will be assessed $16.50 in Bloomington and $18.50 in Indianapolis for each added course, section change, change of arranged hours, or credit/audit change. On the Bloomington campus, students will also be assessed for each dropped course.
[10]A late registration fee will be assessed any student who does not register during the scheduled registration period. On the Bloomington campus, the fee is $50.00 for students who register by the last Friday before classes begin and increases by $10.00 on the Monday of each successive week to a maximum of $90.00. On the Indianapolis campus, a $40.00 late registration fee is in effect upon conclusion of registration through the end of the first week of classes, increasing by $22.00 the first week, $21.00 the second week, and $17.00 the third week to a maximum of $100.00. In Indianapolis summer sessions, a late registration fee of $40.00 is assessed the first week, and $62.00 the second week and thereafter.
[11]Bloomington students enrolled in 3 or fewer credit hours during the fall and spring semesters pay a mandatory student activity fee of $25.50. Students enrolled in more than 3 credit hours pay $51.05. Summer-session students pay a fee per session according to the number of credit hours in which they are enrolled: 3 or fewer credit hours, $12.75; more than 3 credit hours, $25.50. At Indianapolis, the student activity fee for 1 to 8 credit hours is $14.45 per semester. Students enrolled in 9 or more credit hours pay $24.45 per semester. Indianapolis students are also charged a $25.75 Athletic Development fee each semester.
[12]A technology fee will be assessed according to the number of enrolled credit hours as follows: 3 credit hours or fewer; greater than 3 through 6 credit hours; greater than 6 credit hours.
[13]At Indianapolis, a technology fee is assessed for summer sessions according to the number of enrolled credit hours as follows: 3 or fewer credit hours; greater than 3 credit hours. At Bloomington, summer-session students are assessed half the regular-semester technology fee, based on the number of credit hours as follows: 3 credit hours or fewer; greater than 3 through 6 credit hours; greater than 6 credit hours.

Course Fee Refund Schedule

Time of Withdrawal	Refund
9- through 16-week classes	
During 1st week of classes	100%
During 2nd week of classes	75%
During 3rd week of classes	50%
During 4th week of classes	25%
During 5th week of classes and thereafter	None
5- through 8-week classes	
During 1st week of classes	100%
During 2nd week of classes	50%
During 3rd week of classes and thereafter	None
2- through 4-week classes	
During the 1st and 2nd day of classes	100%
During 3rd and 4th day of classes	50%
During 5th day of classes and thereafter	None
1-week (or less) classes	
During 1st day of classes	100%
During 2nd day of classes	50%
During 3rd day of classes and thereafter	None

The refund policy applies to credit hour fees and all course-related fees.

Procedure See the *Schedule of Classes* for more information about how to withdraw from classes.

Student Financial Assistance Students can obtain information about financial assistance through the financial aid office, through the student employment office, or through their schools and departments. For courses taken in Bloomington, contact the Office of Student Financial Assistance or Human Resources Management for information about faculty/staff fee courtesy; for courses taken at IUPUI, contact the Office of Student Financial Aid.

Veterans Benefits

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

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

It is the responsibility of the veteran or veteran dependent to sign up for benefits each semester or summer session of enrollment. It is also the responsibility of the veteran or veteran dependent on the Bloomington campus to notify the Office of Disabled Student Services and Veterans Affairs of any schedule change that may increase or decrease the amount of benefits allowed. Veterans and veteran dependents on the IUPUI campus should notify the Office of the Registrar.

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

At IUPUI, veterans and veteran dependents must notify their veteran benefit representative in the Office of the Registrar in person at the time of registration.

[1] On the IUPUI campus, check with a VA representative in the Office of the Registrar for positive verification of your hourly status.

Key to Course Codes

AFRO	Afro-American Studies (College of Arts and Sciences [COAS])
ANAT	Anatomy (Medical Sciences Program)
BIOL	Biology (COAS)
BUS	Business (Kelley School of Business)
CHEM	Chemistry (COAS)
CLAS	Classical Studies (COAS)
CMCL	Communication and Culture
CSCI	Computer Science (COAS)
ECON	Economics (COAS)
EDUC	Education (School of Education)
ENG	English (COAS)
HPER	HPER (School of Health, Physical Education, and Recreation)
JOUR	Journalism (School of Journalism)
MATH	Mathematics (COAS)
NURS	Nursing (School of Nursing)
PHSL	Physiology (Medical Sciences Program)
PHYS	Physics (COAS)
POLS	Political Science (COAS)
PSY	Psychology (COAS)
SOC	Sociology (COAS)
SPEA	SPEA (School of Public and Environmental Affairs)
TEL	Telecommunications (COAS)

Indiana University Bulletins

You may want to explore other schools of Indiana University. The following is a complete list of our bulletins. Please write directly to the individual unit or campus for its bulletin.

Indiana University Bloomington

College of Arts and Sciences
Kelley School of Business[1]
School of Continuing Studies[2]
School of Education[3]
School of Health, Physical Education, and Recreation
School of Journalism
School of Law—Bloomington[4]
School of Library and Information Science
School of Music
School of Optometry
School of Public and Environmental Affairs[3]
University Division[5]
University Graduate School

Indiana University–Purdue University Indianapolis

School of Allied Health Sciences
Kelley School of Business[1]
School of Continuing Studies[2]
School of Dentistry
School of Education[3]
School of Engineering and Technology (Purdue University)
Herron School of Art
School of Journalism
School of Law—Indianapolis[4]
School of Liberal Arts
School of Medicine
School of Nursing[3]
School of Optometry
School of Physical Education
School of Public and Environmental Affairs[3]
School of Science (Purdue University)
School of Social Work
University College
University Graduate School

Indiana University East (Richmond)
Indiana University–Purdue University Fort Wayne
Indiana University Kokomo
Indiana University Northwest (Gary)
Indiana University South Bend
Indiana University Southeast (New Albany)

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[1] There are two separate bulletins for the Bloomington and Indianapolis undergraduate business programs; please specify which of the two bulletins you need. The graduate business programs for Bloomington and Indianapolis are also separate. Contact the school for a bulletin or other material describing these programs.
[2] Bulletins on the General Studies Degree Program, Independent Study Program, and Division of Labor Studies are available from this school.
[3] Two bulletins are issued: graduate and undergraduate.
[4] There are two Indiana University schools of law. Be sure to specify whether you want a bulletin of the Bloomington or Indianapolis school.
[5] Available only to admitted University Division students.

INDIANA UNIVERSITY BULLETIN
Indiana University
Bloomington, Indiana 47405

Indiana University Bulletin—Entered at the Post Office
at Bloomington, Indiana

PERIODICALS POSTAGE PAID
AT BLOOMINGTON, INDIANA