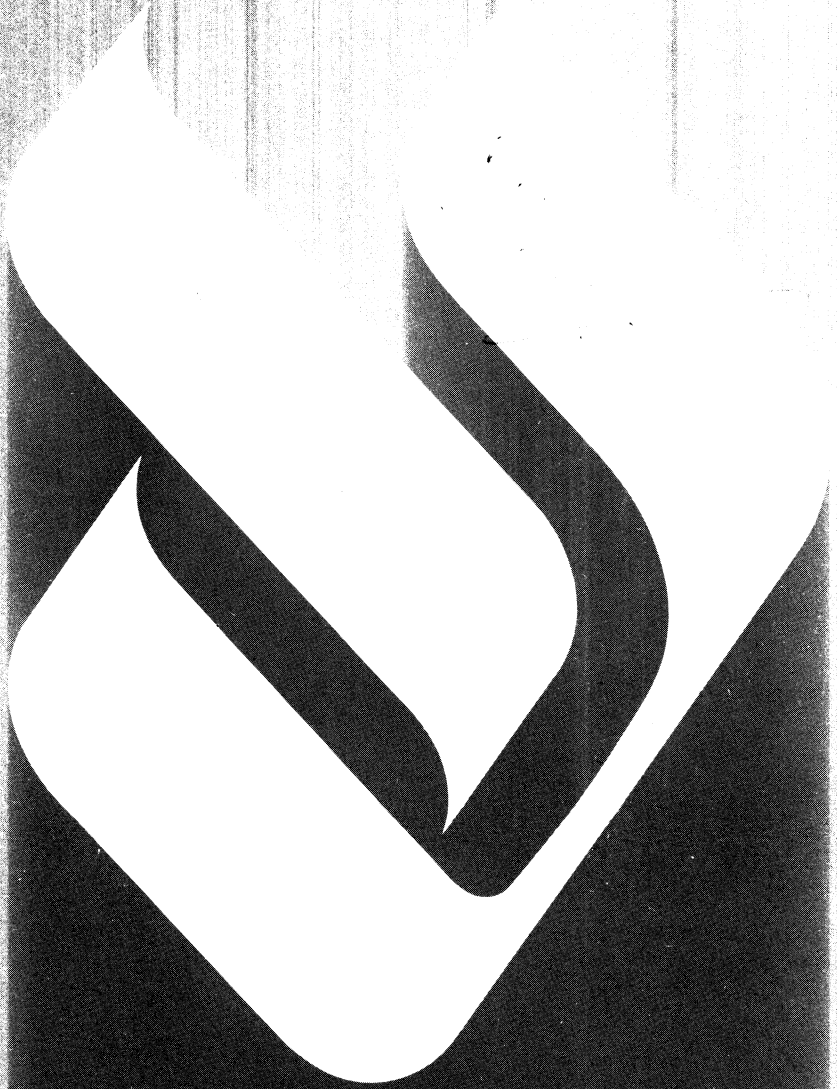


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**School of Health,  
Physical Education,  
And Recreation**

**Indiana  
University**

**Bulletin  
1972-73**

## INDIANA UNIVERSITY

### *Academic Programs in*

★College of Arts and Sciences

★Division of Optometry

★School of Business\*

Division of Continuing Education†

★School of Dentistry

★School of Education\*

Division of General and Technical Studies

★Graduate School

★School of Health, Physical Education, and Recreation

Normal College of the American Gymnastic Union

★Herron School of Art

Indianapolis Law School

★School of Law

★Graduate Library School

★School of Medicine

★Division of Allied Health Sciences

Division of Postgraduate and Continuing Education

★School of Music

★School of Nursing

Regional Campus Administration‡

★Graduate School of Social Service

★Summer Sessions

★University Division

*Bulletins* for most of the above divisions of the University (marked ★) may be obtained from the Office of Records and Admissions, Bryan Hall, Indiana University, Bloomington, Indiana 47401. Other divisions for which *Bulletins* are available should be contacted directly: Indianapolis Law School, 735 West New York Street, Indianapolis, Indiana 46202; Division of General and Technical Studies, 1205 East Tenth Street, Bloomington, Indiana 47401; Normal College of the American Gymnastic Union, 1010 East 64th Street, Indianapolis, Indiana 46260.

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\* Two *Bulletins* are issued: graduate and undergraduate.

† Brochures on the Independent Study Division, Bureau of Public Discussion, Labor Education and Research Center, and Real Estate Continuing Education Programs are available from this Division (Owen Hall).

‡ Write to Regional Campus Administration (Owen Hall) for a *Bulletin*, specifying the particular regional campus.

SCHOOL OF HEALTH,  
PHYSICAL EDUCATION, AND RECREATION

INDIANA UNIVERSITY BULLETIN ~~1972/73~~

1973/74

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## INDIANA UNIVERSITY BULLETIN

(OFFICIAL SERIES)

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Vol. LXIX, No. 27 Bloomington, Indiana December 1, 1971

# Calendars (Bloomington)

1971-72

1972-73

	First Semester	
New student orientation and counseling (for University Division, transfer, and graduate students).....	Aug. 24, T, 9 a.m.	Aug. 22, T, 9 a.m.
Registration and counseling.....	Aug. 25, 26, 27, 28; W, Th, F, S.	Aug. 23, 24, 25, 26; W, Th, F, S
Classes begin.....	Aug. 30, M, 7:30 a.m.	Aug. 28, M, 7:30 a.m.
Labor Day recess.....	Sept. 6, M	Sept. 4, M
Midterm reports due.....	Oct. 22, F, 5 p.m.	Oct. 20, F, 5 p.m.
Thanksgiving recess begins (after last class).....	Nov. 23, T	Nov. 21, T
Classes resume.....	Nov. 29, M, 7:30 a.m.	Nov. 27, M, 7:30 a.m.
Classes end.....	Dec. 18, S	Dec. 16, S
Departmental exams begin.....	Dec. 20, M, 7:45 a.m.	Dec. 18, M, 7:45 a.m.
Departmental exams end.....	Dec. 22, W, 5:15 p.m.	Dec. 20, W, 5:15 p.m.

	Second Semester	
New student orientation and counseling (for University Division, transfer, and graduate students).....	Jan. 11, T, 9 a.m.	Jan. 9, T, 9 a.m.
Registration and counseling.....	Jan. 12, 13, 14, 15; W, Th, F, S.	Jan. 10, 11, 12, 13; W, Th, F, S
Classes begin.....	Jan. 17, M, 7:30 a.m.	Jan. 15, M, 7:30 a.m.
Midterm reports due.....	March 10, F, 5 p.m.	March 9, F, 5 p.m.
Spring recess begins (after last class).....	March 11, S	March 10, S
Classes resume.....	March 20, M, 7:30 a.m.	March 19, M, 7:30 a.m.
Founders Day*.....	April 19, W	April 18, W
Classes end.....	May 6, S	May 5, S
Departmental exams begin.....	May 8, M, 7:45 a.m.	May 7, M, 7:45 a.m.
Departmental exams end.....	May 10, W, 5:15 p.m.	May 9, W, 5:15 p.m.
Commencement.....	May 22, M, 10 a.m.	May 21, M, 10 a.m.

## Summer, 1972

### First Summer Session

Counseling.....	May 15, M
Registration.....	May 15, M
Classes begin.....	May 16, T
Classes end.....	June 22, Th

### Intensive Session I

Counseling.....	May 15, M
Registration.....	May 15, M
Classes begin.....	May 16, T
Classes end.....	June 1, Th

### Intensive Session II†

Counseling.....	June 9, F
Registration.....	June 9, F
Classes begin.....	June 10, S
Classes end.....	June 24, S

### Second Summer Session

Counseling.....	June 23, 24; F, S
Registration.....	June 23, 24; F, S
Classes begin.....	June 26, M
Independence Day(s) recess.....	July 3, 4; M, T
Classes end.....	Aug. 18, F

### Intensive Session III

Classes begin.....	June 26, M
Independence Day(s) recess.....	July 3, 4; M, T
Classes end.....	July 14, F

### Intensive Session IV‡

Classes begin.....	July 17, M
Classes end.....	Aug. 1, T

### Intensive Session V

Classes begin.....	Aug. 2, W
Classes end.....	Aug. 18, F

\* 9:30, 10:30, 11:30, and 12:30 classes do not meet.

† Three Saturday class meetings necessary in this session.

‡ One Saturday class meeting necessary in this session.

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# Indiana University General Statement

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Indiana University provides a statewide system of public higher education. Created in 1820 by an Act of General Assembly, Indiana University has grown until it is now ranked the eighth largest university in the nation in terms of full-time enrollment. The University is composed of eighteen academic schools and divisions, with a faculty exceeding 3,000. To meet the needs of more than 68,000 full- and part-time students, the University offers 5,000 courses of instruction in more than 100 departments. Its graduate divisions offer 36 advanced degrees in 62 areas.

Students from all fifty states and from many foreign nations are enrolled on its eight campuses. Indiana University is in year-round operation, with two regular semesters and a summer program which is one of the largest in the nation.

**Campuses.** The major divisions of Indiana University are the Bloomington campus, Indiana University - Purdue University at Indianapolis (IUPUI), and six regional campuses serving population centers over the state.

The Bloomington campus comprises 2,000 acres of woodland traversed by the meandering stream known to generations of students as the Jordan River. Most major academic buildings are confined to the area between Third and Tenth Streets and Indiana and Jordan Avenues; residence halls, fraternity and sorority houses, and University service divisions border this area. Buildings for the most part are constructed of native limestone, enhancing the natural beauty of the campus.

Indiana University - Purdue University at Indianapolis administratively unifies operations of these two universities in Indianapolis. The state's major concentration of health-care resources, situated on the near west side of the city, includes the School of Medicine, with its Division of Allied Health Sciences, and the Schools of Dentistry and Nursing. Extensive hospital and related facilities provide students with clinical experience. Other facilities include academic and administrative buildings, clinical and research laboratories, residence halls, and the Union Building. On nearby sites, are recently completed buildings for the Downtown Campus and the Indianapolis Law School. Other IUPUI units are the 38th Street Campus (offering Purdue academic programs), the Graduate School of Social Service, the Normal College of the American Gymnastic Union, and the Herron School of Art.

The other campuses of the University are Indiana University East, Richmond; Indiana University at Fort Wayne; Indiana University Northwest, Gary; Indiana University Southeast, Jeffersonville-New Albany; Indiana University at Kokomo; and Indiana University at South Bend.

Additional University facilities include Bradford Woods, Crooked Lake, the Geologic Field Station in Montana, the Lake Monroe biology site, the Goethe Link Observatory, Camp Brosius at Elkhart Lake, Wisconsin, and Angel Mounds historical and archeological site near Evansville.

**Libraries.** In summer, 1969, Indiana University opened its new \$15-million University Library. The completely air-conditioned building is divided into three main areas: a five-floor west tower in which the Undergraduate Collections are shelved; a twelve-floor east tower in which the General Collections are housed on stack floors; and a general services area underlying and connecting the two towers. Other features of the new building include 900 individual study carrels, numerous faculty studies and seminar rooms, smoking lounges, temporary lockers, a cafeteria-snack bar, and offices and classrooms of the Graduate Library School. Approximately half of the University's collection of more than five million volumes is located in the University Library. The other volumes are conveniently distributed in reading rooms and departmental libraries (Anatomy-Physiology, Biology, Business, Chemistry, Education, Fine Arts, Geology, Law, Music, Optometry, and Physics-Mathematics-Astronomy); in the Lilly Library for

special collections and rare books; in the several libraries at the other Indiana University campuses; and in housing units in the Halls of Residence system on the Bloomington campus.

### ADMISSION TO THE UNIVERSITY

An Indiana resident who (1) graduates from a commissioned (or accredited) high school, (2) ranks in the top half of his class, (3) makes scores above average for a high school senior on the College Board Scholastic Aptitude Test (SAT) or the American College Test (ACT), and (4) completes application procedures at the appointed time may expect admission to Indiana University. All divisions enrolling freshmen use the same procedures and standards. The Admissions Committee is authorized to make exceptions to the above standards and invites students to submit evidence of unusual skills or abilities.

**Preparatory courses** should include four years of English (one-half unit each of speech and journalism may be included) and nine or more units in mathematics, science, foreign language, and social studies. ~~Students seeking admission to the College of Arts and Sciences or School of Nursing should include two or more years each of mathematics, science, and foreign language. Students seeking admission to the School of Business should include two or more years of algebra and/or trigonometry.~~

**Out-of-state freshmen** will be selected from applicants whose rank and test scores are in the top fourth of high school seniors.

**Transfer applicants** from Indiana whose grades at all colleges attended average at least C (2.0 on a 4.0 system), whose records of conduct are clear, and whose applications have been completed at the appointed time may expect admission. Out-of-state transfer students will be admitted from applicants with an average of B or better.

**Applications** may be filed after completion of the junior year in high school. Early admission will be granted to superior students who have completed the required tests and are taking the necessary senior subjects. Transfer applicants may apply during the school year preceding proposed entry. Closing dates for applications are December 5 for second semester, April 15 for summer sessions, and June 15 for first semester. An application fee of \$15 is required of each applicant who is new to the University. All questions concerning admission should be directed to the Office of Records and Admissions, Bryan Hall, Indiana University, Bloomington, Indiana 47401.

**University Division.** All students entering Indiana University directly from high school and all students transferring to the University during their freshman year enter the University Division. The chief purpose of the University Division is to guide the freshman student toward his educational goal. Each freshman is assigned a faculty counselor (usually in his major department), who advises him in his program-planning and assists him with any academic questions or problems.

All new freshmen should participate in the preregistration program held from mid-July through early August, and all freshmen will be expected to participate in the fall orientation program on campus, which acquaints them with organizations and services of the University and instructs them in study techniques.

### FEES

Indiana University does not charge resident students a tuition fee for the cost of instruction. Fees charged nonresidents cover in part the cost of instruction. A portion of fees is allocated for cultural and recreational uses and for health services.

Fees are paid at the time of registration each semester and are subject to change by action of the Trustees.

**Fee Courtesy.** For full-time employees, this courtesy shall provide a waiver of a portion of the basic fees for all courses in which the employee shall be permitted to

enroll. For spouses of full-time employees, this courtesy shall provide a waiver of a portion of the basic fees for as many as 3 credit hours in which the spouse shall be enrolled in each regular semester and summer session, excluding any intensive session courses. The reduction in amount of fees to be paid under this courtesy, in all divisions of the University, shall not exceed one half of the basic, in-state fees for an undergraduate student in the College of Arts and Sciences enrolled in the number of credit hours for which the employee or spouse is eligible to receive fee courtesy. Health service shall not be provided except for a spouse enrolled in additional hours of credit work for which regular fees have been paid.

**Basic Costs.** Expenses for an undergraduate Indiana resident attending Indiana University, Bloomington, for an academic year, including in-state semester fees, housing (room and board) and books and supplies, total approximately \$1,800. Expenditures for clothing, travel, entertainment, and personal items are not included in this estimate.

**Fee Schedule, 1972-73**

**Bloomington Campus**

**FIRST AND SECOND SEMESTERS**

	<b>Indiana Resident</b>	<b>Nonresident</b>
Undergraduate* (12-17 hours) † .....	\$325/sem.	\$745/sem.
Undergraduate* (1-11 hours) .....	\$ 27/cr. hr.	\$ 62/cr. hr.
Graduate ‡ .....	\$ 27/cr. hr.	\$ 62/cr. hr.
Auditing (lecture courses only) §		
Full-time students ¶ .....		no charge
Part-time students .....		\$10/cr. hr.
Special fees (in addition to basic fees)		
Applied music ¶¶ .....		\$35/sem.
Student teaching .....		\$50
Late enrollment or re-enrollment .....		\$25
Special examination .....		\$ 5 to \$10
Bowling, golf, horsemanship .....		(payment made to bowling alley, golf course, or academy for use of facilities)
Transcripts (after first) .....		\$ 1
Deposits (to cover loss or breakage)		
ROTC .....		\$10
Band .....		\$ 5
Singing Hoosiers .....		\$ 5
Special Health Service Fee (optional) * .....		\$20 per semester
Rentals		
Music instruments .....		\$ 5 to \$25 a semester for each hour of daily use
Practice room .....		\$ 3 a semester for each hour of daily use
		(above rentals not charged if applied music fee is paid)
Lockers		
Woodburn Hall, Law Building, Ballantine Hall, Music Building, and Business Building .....		\$ 5 deposit, \$1-\$1.50 rent deducted a semester
HPER Building (for persons not enrolled in HPER courses for credit) .....		\$ 3 per semester

\* Includes Evening Division and Special Students.  
 † An additional charge is made at the appropriate credit-hour rate for each credit hour taken in excess of 17.  
 ‡ Includes School of Law.  
 § Noncredit participants in courses which cannot be audited pay regular fees.  
 ¶ Full-time students: undergraduate, 12 or more hours; graduate, 9 or more hours.  
 ¶¶ Persons desiring applied music who are not regularly working toward a degree will be charged \$150 per applied music course. Nonmusic majors will be charged \$35 for each applied music course.

*Please include current information*

Independent (Correspondence) Study	
College-credit courses (residents and nonresidents) .....	\$20/cr. hr.
High school courses (residents and nonresidents) .....	\$20/course

### Fee Refund Schedule, 1972-73

#### Bloomington Campus

#### FIRST AND SECOND SEMESTERS

	Full Withdrawal	Partial Withdrawal
First week, or until Class Change Day .....	100%	100%
Second and third weeks .....	50%	none
	or all except \$50, whichever is larger	
Thereafter .....	none	none

### Summer Session Fee Schedule, 1972

#### Bloomington Campus

RATE PER CREDIT HOUR	Indiana Resident	Nonresident
Undergraduate† .....	\$27	\$62
Graduate‡ .....	\$27	\$62
Slavic Workshop .....	\$27	\$27
Geologic Field Study .....	\$27	\$27
Applied music .....	\$17.50	
Student teaching .....	\$50	
Special examination .....	\$ 5	
Bowling, golf, horsemanship .....		(payment made to bowling alley, golf course, or academy for use of facilities)
Transcripts (after first) .....	\$ 1	

### Summer Sessions Fee Refund Schedule, 1972

#### Bloomington Campus

<b>For Intensive Sessions</b> (courses 13 class days in duration)		
Withdrawal before second class .....		100%
Withdrawal before third class .....		50%
Thereafter .....		none
<b>For Those Courses Which Are Six or Eight Weeks in Duration</b>		
	<b>Refund for Full Withdrawal</b>	<b>Refund for Partial Withdrawal</b>
First week, or until Class Change Day .....	100%	100%
Second week .....	50%	none
	or all except \$50, whichever is larger	
Thereafter .....	none	none

### Rule Determining Resident and Nonresident Student Status

This Rule establishes the policy under which students shall be classified as residents or nonresidents upon all campuses of Indiana University. A nonresident student shall pay a nonresident fee in addition to fees paid by a resident student.

\* Graduate students enrolled in 5 credit hours or less and undergraduate students enrolled in 7 credit hours or less who to receive the services of the Health Center must pay this service charge.

† Includes Special Students.

‡ Includes School of Law.

This Rule, effective July 1, 1969, applies to all determinations of student residence status made on and after that date; provided that no person properly classified as a resident before July 1, 1969, shall be adversely affected by this Rule so long as he attended the University before that date and remains continuously enrolled in the University.

"Residence," as the term, or any of its variations, is used in the context of this Rule for the purpose of defining the presence of a student within the state of Indiana and entitlement to resident student fee status means the establishment of a permanent dwelling place within the state, the continued presence in such dwelling, and a continuing intent to remain within the state. Evidence that a person intends to leave the state when a particular purpose is achieved negates residence. Ordinarily it will be presumed that a person entering Indiana from another state or country for the purpose of attending an institution of higher education does so with the intent of remaining only for the period required to attain educational goals and does not acquire residence. The facts that a person pays taxes and votes in Indiana will not overcome this presumption.

1. A "resident student" must have continuously resided in Indiana for at least six (6) months immediately preceding the first scheduled day of classes of the semester or other session in which the individual enrolls in the University.
  - a. The residence of a minor follows that of the parents or of a legal guardian who has actual custody of the minor or administers the property of the minor. In the case of divorce or separation, if either parent meets the residence requirements, the child will be considered a resident.
  - b. A minor student who comes from another state or country for the predominant purpose of attending the University shall not be admitted to resident student status upon the basis of the residence of a guardian, except upon appeal to the Trustees in each case.
  - c. The residence of a wife follows that of her husband; however, no woman shall lose her residency status because of marriage, if she continues enrolled in the University until she earns the degree for which she is enrolled at the time of marriage.
2. Physical presence in Indiana for the predominant purpose of attending a college, university, or other institution of education, except high school or its equivalent, shall not be counted in determining whether a person is a "resident student."
3. Nationality of a person shall not be a factor in determining resident student status if such person has the legal capacity to remain permanently in the United States.
4. 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 his degree shall have been earned.
5. The Registrar or the person fulfilling those duties on each campus shall classify each student as resident or nonresident and may require and question proof of relevant facts. The burden of proof is upon the student making a claim to resident student status.
6. A Standing Committee on Residence shall be appointed by the President of the University.
7. A student who is not satisfied by the determination of the Registrar may lodge a written appeal with the Standing Committee on Residence, which Committee shall review the appeal in a fair manner and shall, if time and circumstances permit or require, afford to the student a personal hearing. The Committee shall report its determination to the Registrar, who shall forward it to the student.
8. 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 this Rule or is consistent with a decision of the Trustees; provided that each such instance shall be promptly reported to the Trustees for approval.

9. A student, within thirty (30) days after notice of an adverse decision by the Committee on Residence, may file an appeal to the Trustees with the Secretary of the Board of Trustees.

10. A student or prospective student who shall knowingly provide false information or shall refuse or conceal information for the purpose of 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 classification as a nonresident student, within thirty (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 shall be deemed to have waived any alleged overpayment of fees for that semester or session.

## HOUSING

The Halls of Residence system at Indiana University, recognized as outstanding among universities throughout the country, includes housing units for graduate, married, and single students. Other housing accommodations are available in private homes, apartments in town, and in fraternity and sorority houses.

Rates in the Halls of Residence range from \$865 to \$1,125 an academic year for single housing and from \$62.50 to \$170 a month for married housing apartments or trailers. Less expensive accommodations for single students are provided in cooperative and residence scholarship housing units. Fraternity and sorority housing runs slightly higher than Halls of Residence. When requesting housing accommodations in the University Halls of Residence, the student must enclose a \$25 deposit with his application. The Off-Campus Housing Office maintains a list of private rooms. Both offices are located at 801 North Jordan, Indiana University, Bloomington, Indiana 47401.

## ACADEMIC REGULATIONS

**Degree Requirements.** Students are responsible for understanding all requirements for graduation and for completing them by the time they expect to graduate. Total hours required for the baccalaureate degree are 122 to 124, determined by the individual school. A minimum cumulative grade-point average of 2.0 (on a 4.0 basis) is necessary. Class standing is based on credit hours completed: freshman, fewer than 27; sophomore, 27-55; junior, 56-85; senior, 86 or more.

**Employment.** Undergraduate or graduate students who are employed on a full-time basis may not carry more than six hours of college credit per semester.

## UNIVERSITY DIVISION

All students entering Indiana University directly from high school and all students transferring to the University during their freshman year enter the University Division. The chief purpose of the University Division is to guide the freshman student toward his educational goal.

**Counseling.** Each freshman is assigned a faculty counselor (usually in his major department), who advises him in his program planning and assists him with any academic questions or problems.

**Orientation and Registration.** All new freshmen should participate in the pre-registration program held in July, and all freshmen will be expected to participate in the fall orientation program on campus, which acquaints them with organizations and services of the University and instructs them in study techniques.

## SCHOLASTIC INFORMATION

**Grades.** The official grade system of the University is as follows: A=4 credit points; B=3; C=2; D=1; and F=0. Inclusion of elective physical education courses in the cumulative grade computation is determined by the specific school.

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

**Withdrawals.** A grade of W is given automatically to the undergraduate student who withdraws during the first three weeks of a regular semester and during the first two weeks of a summer session. Thereafter, it is given only when the student withdraws with the approval of his dean, based on urgent reasons relating to health or equivalent distress, and if the student is passing on the date of withdrawal. If the student is failing on the date of withdrawal, the grade recorded on that date shall be WF (withdrawn, failing).

**Incompletes.** If a student is not in attendance during the last several weeks of a semester, the instructor may report a grade of I (indicating the work is satisfactory at the end of the semester but has not been completed) if he has reason to believe the absence was beyond the student's control; if not, he shall record a grade of F. A grade of Incomplete must be removed within one calendar year of the date of its recording, or the dean of the school in which the student is enrolled will authorize the grade to be changed to F. A grade of Incomplete may be removed if the student completes the work within the time limit or if the dean authorizes the change of the Incomplete to W. A student may not register in a course in which he has a grade of Incomplete.

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

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

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

**Probation.** A student is placed on probation for the semester succeeding the one in which he fails to earn a C average. He remains on probation as long as he earns less than a C average in a given semester or has less than a cumulative C average.

**Dismissal.** At the discretion of the Scholarship and Probation Committee, a student may be dismissed from the School if he (1) makes less than a D average for a semester, (2) is more than nine credit points below a cumulative C average, or (3) is on probation for two consecutive semesters. In special cases a student who has been dismissed may petition the Committee for readmission.

**Opportunities for Superior Students.** The honors program, offered by some schools of the University, allows the student of superior ability and achievement to follow a course of independent study and research. Special sections for accelerated work are offered in some courses, and, by special examination, one may establish advanced standing or gain exemption from certain required courses. Further information on specific honors programs may be obtained by consulting the department head or the dean of the school.

Students satisfying the requirements of a departmental honors program are granted degrees indicating that they have participated in the "Honors Program of Independent Study and Research." The University also recognizes high cumulative grade averages by awarding degrees with various designations of "Distinction" or "Honors."

## STUDENT SERVICES

**Scholarships and Financial Aids.** Information concerning scholarships and loans available to undergraduate students may be obtained from the Director of Scholarships and Financial Aids, 809 East Seventh Street, Indiana University, Bloomington, Indiana 47401. Graduate students may obtain information on scholarships and fellowships through the Office of the Graduate School.

**Employment.** The Student Employment Section of the Office of Scholarships and Financial Aids lists openings for part-time jobs in halls of residence, campus offices, libraries, bookstores, Indiana Memorial Union, and fraternity and sorority houses. Students seeking suitable employment should contact the Office of Scholarships and Financial Aids, 809 East Seventh Street, Indiana University, Bloomington, Indiana 47401.

**Student Health Service.** Available to all regularly enrolled students on the Bloomington campus, the Health Service provides evaluation of the physical examinations required of students coming to the Bloomington campus for the first time, outpatient medical care similar to that expected from the student's family physician, a Psychiatric Clinic for evaluation and short-term therapy, a program in environmental health and preventive medicine, and assistance in the administration of the student group hospital insurance plan. The Health Center is located at Tenth Street and Jordan Avenue.

**Clinical Services.** Students have access to several clinics at the University. The Reading and Study Skills Center helps students to improve reading speed and comprehension. The Speech and Hearing Center provides therapy for students who have speech and hearing defects. The Psychological Clinic of the Department of Psychology, the Student Health Psychiatric Service, and the Counseling Office of the Division of Student Personnel help students with personal problems or with special problems in choosing careers.

**Placement Services.** The University maintains three job placement bureaus which serve students free of charge. The Bureau of Educational Placement registers qualified students for teaching and associated positions. The Business Placement Office of the School of Business arranges interviews with representatives from business and industry for students of all schools and divisions and for University alumni. It also publishes a list of openings. The Government Placement Office in Ballantine Hall helps students find employment with local, state, and federal agencies, including civil and foreign service agencies.

**Indiana Memorial Union.** Centrally located on campus, the Union provides numerous services. The Commons and Kiva are popular for snacks, the Cafeteria for self-service meals, and the Tudor Room for leisurely dining. Also in the Union are barber and beauty shops, a newsstand and post office, meeting rooms, three large lounges, and a Browsing Room. Guest rooms for visitors are available in the Union's Biddle Continuation Center.

The Bookstore, also located in the Union, carries required and supplementary texts, used books, and supplies, as well as University insignia apparel and souvenirs. It also maintains a check-cashing service for the convenience of students and faculty. This self-supporting department of the University has a branch store in Gresham Hall of Foster Quadrangle.

## STUDENT ACTIVITIES

Students are encouraged not only to attend but to take part in extracurricular programs and activities, including athletics, theatre production, the more than forty musical organizations on campus, debate and public speaking activities, and programs of the Department of Radio and Television. Others become interested in working with student publications, including *The Indiana Daily Student*, campus newspaper; the yearbook, *Arbutus*; and creative writing magazines.

**Recreation.** In addition to recreational programs of the Halls of Residence, social events of fraternities and sororities, and activities of independent groups, a program of indoor sports and recreation including bowling, table tennis, billiards, television, cards, and chess is maintained by the Indiana Memorial Union. A well-equipped Craft Shop is available to students without charge. The Union Board sponsors such events as Campus Quiz Bowl, formal dances and dinners, pop concerts with nationally known dance bands and top entertainers, and special interest groups including the Flying, Spelunkers, Sailing, and Rifle Clubs. Beechwood Heights, the University's 33-acre recreational area on Lake Lemon, provides facilities for swimming, sailing, picnicking, and outdoor games. Monroe Reservoir and large state forest preserves and parks are also within easy driving distance of the campus.

**Cultural Events.** The world's leading concert artists, professional Broadway plays, musicals, and ballets come to the campus for performances in the Indiana University Auditorium. Free convocations feature outstanding lecturers and distinguished presentations in politics, public affairs, sciences, and the arts. Reading and discussion series and forums and art exhibits also are among the cultural opportunities available for students. The School of Music presents professionally acclaimed student productions in the fields of opera, recital, and ballet. The University Theatre offers a full season of the best in drama on campus and, during summer season, at the Brown County Playhouse in Nashville.

**Social and Traditional Events.** Homecoming, Little 500 Weekend, Christmas Eve on Campus, the Madrigal Dinners and Emphasis Series lectures dinners are among the traditional events on campus.

**Athletic Events and Facilities.** Indiana University is a member of the Big Ten Conference and participates in all Big Ten sports: football, baseball, basketball, golf, tennis, track, swimming, wrestling, and gymnastics. A large new assembly hall, a stadium, and a field house are supplemented by other facilities including several sports fields, swimming pools, golf courses, and tennis courts.

An extensive intramural sports program provides recreational opportunities for every student. The finest facilities for swimming, golf, tennis, volleyball, archery, and bowling are available.

**Student Government.** Students are urged to take part in the activities of student government, ranging from those of their living unit to the all-campus student government represented by the executive (student body president and his cabinet), legislative (Student Senate), and judicial (Student Supreme Court) branches.

**Student Organizations.** There are approximately 150 student organizations on campus other than fraternities, sororities, and residence hall groups, as well as representative groups of many local, state, national, and international organizations.

In the School of Health, Physical Education, and Recreation, a number of clubs are sponsored by the different departments as well as by the School in general. The *Health and Safety Major and Minor Club (SHEMM)* is sponsored by the Health and Safety Education Department. The Department of Physical Education for Women sponsors several clubs, including the *Women's Recreation Association* (which includes women's intramural and sports activities and is open to all women on the campus), the *Oceanides Club* (for women interested in synchronized swimming), the *Modern Dance Performing*

*Group* (open to men and women), and the *Physical Education Major and Minor Club (PEMM)*, which is open to women majors and minors in physical education. In addition there are special interest groups such as: basketball, golf, gymnastics, hockey, softball, speed swimming, tennis, track and field, and volleyball. In the Department of Physical Education for Men, there are Alpha Chapter of *Phi Epsilon Kappa* (national honorary physical education fraternity) and other clubs such as: *Archery, Badminton, Fencing, Ice Hockey, Judo, Rugby, Scuba, Soccer, Volleyball, and Water Polo*. The Department of Recreation and Park Administration sponsors the *Undergraduate Recreation Society* and the *Graduate Recreation Society*. For the wives of students and faculty in the School, there is the *HPER Wives Club*, which has monthly meetings and interest groups. The *Dames Club* is a University-sponsored club for student wives on the campus.

**Religious Organizations.** All church denominations welcome students into their congregations, and many churches sponsor special programs for students. General religious groups on campus conduct extensive religious, social, and service activities. The Beck Chapel, near the center of the campus, serves all faiths.

### SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

The School of Health, Physical Education, and Recreation of Indiana University began official operation as an autonomous School of the University, July 1, 1946. The program of the School is a reorganized continuation of work of several agencies which have been joined in this division of the University. The Normal College of the American Gymnastic Union began to train teachers of physical education in 1866—the first educational institution in America to perform this type of professional service. The Physical Welfare Training Department of the School of Education of Indiana University was an outgrowth of work in preparing teachers of physical and health education with the first graduates in this field receiving degrees in 1926. The School is presently comprised of the Departments of Athletic Professional Training, Health and Safety Education, Physical Education for Women, Physical Education for Men, Recreation and Park Administration, and the Graduate Division.

*Continued*

## Departments in the School of Health, Physical Education, and Recreation

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### DEPARTMENT OF ATHLETIC PROFESSIONAL TRAINING

Director Orwig; Professors Counsilman, Pont; Associate Professors Billingsley, Harrell, Watson; Assistant Professors Andres, Bell, Brown (J.), Fitch, Knight, Landin; Instructors Baker (C. G.), Baker (Robert), Bliss, Brown (H.), Dal Sasso, Fairfield, Healion, Hicks, Hulls, Lawrence, McDaniel, Mauro, Mourouzis, Plank, Van Schoyck, Voorhis, Walters

The function of this Department is to provide experiences through the various courses required in the professional preparation of teachers and coaches for the public schools. It also provides laboratory experiences in the various sports programs and for young men planning a career in athletic training.

### DEPARTMENT OF HEALTH AND SAFETY EDUCATION

Professors Loft, Ludwig, Rash (Chairman); Associate Professor Brennan; Assistant Professors Crowe, Dane, Mitchell; Lecturers Stafford, Ulrich

This Department is concerned primarily with the professional preparation of workers in the field of community health and safety education, school teachers at all levels, and teachers and administrators of school and college health and safety programs. The undergraduate and graduate major curricula lead to degrees in health and safety at the baccalaureate and graduate degree levels and in public health education at the master's degree level.

The Department seeks to serve students throughout the University through elective courses in first aid, personal health, and safety education, including driver education and firearm safety. The Center for Safety and Traffic Education, a division of this Department, provides appropriate services, both to the University community and to the citizens of the state of Indiana, through research, conferences, and institutes conducted in cooperation with interested agencies, schools, business, and/or industries.

### DEPARTMENT OF PHYSICAL EDUCATION FOR WOMEN

Professors Aldrich (Chairman), Davies, Leyhe; Associate Professors Kruger, Summers; Assistant Professors Burrus, Clifford, Johnson, McAuley, Sherwin; Instructors Cummins, Grotke, Hope, Lucas; Lecturers Chapman, Hamm, Snygg

A wide variety of sports, dance, and aquatics is offered in the basic instructional program. Courses are based on two periods per week for one hour of credit each semester. Undergraduate women may elect a limited number of physical education courses for academic credit.

Activities offered include folk, square, social, and modern dancing; aquatics, including American Red Cross senior life saving, water safety instructor's course, scuba, and synchronized swimming; team sports, including basketball, hockey, lacrosse, softball, volleyball; individual and dual sports, including archery, badminton, bait and fly casting, fencing, horsemanship, recreational games, riflery; and a program in body dynamics including conditioning exercises and exercise to music.

In addition to the basic instructional courses, professional preparatory courses in the area of physical education include professional and technical instruction for students

in the areas of sports, dance, aquatics, and gymnastics. Laboratory experiences are also offered in coaching, officiating, judging, organizing and supervising intramural and extramural activities.

### DEPARTMENT OF PHYSICAL EDUCATION FOR MEN

Professors Cooper, Councilman, Cousins (Chairman), Daugherty, Endwright, Ryser, Slater-Hammel, Strong; Associate Professors Baumgartner, Belisle, Billingsley, Bruce, Myhre; Assistant Professors Andres, Berg, Brown (J.), Bucher, Carlson, Gallahue, Landin, Liemohn, Mindheim, Newberg, Yeagley; Instructors Bliss, Hulls, Lawrence; Lecturers Barlow, Bowlus, Burns, Chrouser, Keihn

The basic instructional program offers instruction in a wide variety of sports activities on an elective basis. Undergraduate men may elect a limited number of physical education courses for academic credit.

Professional and technical instruction for students in the professional preparatory courses in the areas of health, safety, physical education, athletics, and recreation is offered. Recreation activities for students, faculty, and staff are planned for hours when the facilities of the Department are not being used for regular instruction.

### DEPARTMENT OF RECREATION AND PARK ADMINISTRATION

Professors ~~Carlson~~, Deppe (Chairman), MacLean, <sup>Kiss</sup>Tully; Associate Professors Law-son, Meyer, Peterson (J.); Assistant Professors Ross, <sup>Wilson</sup>Wilson; Instructor Riggins; ~~Lecturer Peterson (G.)~~

The Department prepares students for professional recreation leadership and for supervisory and executive positions in a variety of settings. Students may select from four options 1. Public Recreation and Parks; 2. Camping and Outdoor Recreation; 3. Youth Serving Organization; and 4. Therapeutic Recreation.

The undergraduate curriculum emphasizes a broad general education background which involves 16 different departments of the University and is complemented with a core of 15 professional park and recreation courses plus laboratory experiences in agencies throughout the state. The Department operates the 2,300-acre Bradford Woods Outdoor Recreation Area. Requirements for a teaching certificate may be acquired in every option with the exception of therapeutic recreation.

The graduate curriculum is designed for students who are preparing for administrative, teaching, or research careers. Three options are offered for M.S. students: Public Parks and Recreation; Outdoor Recreation; and Union Management.

# Graduate Division

## GENERAL REQUIREMENTS FOR ADVANCED DEGREES

The Graduate Division is designed to provide the student with a comprehensive understanding of his field, preparation in depth in his area of interest, and a working knowledge of research techniques. The M.S., M.P.H., Director's, and doctoral degrees are offered in the areas of Health and Safety, Physical Education, and Recreation. The Ph.D. is offered in Physical Education with concentration in the area of human performance.

**Admission.** Admission to the Graduate Division is taken under consideration for those with a bachelor's degree from an accredited institution and is dependent upon the grade-point average, Graduate Record Examination scores, and letters of recommendation.

**Application.** An application for admission must be submitted to the Graduate Division, School of Health, Physical Education, and Recreation. Official transcripts of all undergraduate and graduate work taken at institutions other than Indiana University must also be submitted along with letters of recommendation. An application fee of \$15 is required of those who have not previously attended Indiana University. Credentials submitted for admission become the property of the University and will not be returned to the applicant.

Applicants will be granted temporary admission only to master's and director's programs until GRE scores are submitted. Upon receipt of the GRE scores unconditional admission may be granted if candidate is qualified.

**Nondegree.** Applicants who are not candidates for a degree may be admitted as nondegree students. They must apply for admission in the same manner as degree students and should indicate on the application their desire to be classified as nondegree.

It is possible that courses taken while on this status may not be counted toward a degree if the student desires later to pursue a degree program.

**Transient Students.** A student in good standing in any recognized graduate school who plans to return thereafter to his former university may also be admitted as nondegree student. In lieu of transcripts and letters of recommendation, he may request his graduate dean or departmental chairman to send a statement verifying his status in his home school.

**Graduate Record Examination.** The aptitude portion of this examination is required for all graduate students. Master, director, and doctoral degree candidates must submit GRE scores with their application for admission. The exam must be taken by part-time as well as full-time graduate students. For information concerning this examination write to the Educational Testing Service, Princeton, New Jersey 08540, or P.O. Box 27896, Los Angeles, California 90027 or 1947 Center Street, Berkeley, California 94704. A student may retake the GRE in an attempt to improve his scores if he so desires.

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

**Residence.** Being in residence is regarded as the time spent carrying a full schedule of courses or studies for a given period, such as a semester or academic year. Twelve to fifteen semester hours are considered a full schedule. Students at the master's level not devoting full time to graduate study will receive residence credit at the rate of six weeks of residence for each five semester hours completed. (Full-time graduate assistants, research associates, and associate instructors are granted a full semester of residence credit when they carry a minimum of 9 semester hours of course work.)

**Correspondence Courses.** Credit earned in correspondence courses may not be counted toward any advanced degree. Such credit, however, may be used in making up entrance deficiencies.

**Work at Regional Campuses.** A student at another Indiana University campus who wishes to work toward a graduate degree in the School of Health, Physical Education, and Recreation and who has not made application for admission to a degree program, may find application materials available at the appropriate regional campus office or by writing to the School of HPER, Indiana University. Courses taken at other campuses must be cleared with the Graduate Division office of the School of HPER upon recommendation of the adviser in order to be certain that such courses may be counted toward degree requirements.

**Grades\*.** Graduate students must maintain an average of B or better to be regarded as doing acceptable work toward an advanced degree. Grades below C are not counted toward completion of the requirements for a graduate degree. The Director of Graduate Studies will review the records of all candidates whose scholarship is unsatisfactory and suggest appropriate action to improve their scholarship.

**Application for Graduation.** Candidates must file an "Application for an Advanced Degree" in the Graduate Division Office of this School. Application forms are available in the Graduate Division Office of the School of Health, Physical Education, and Recreation, and must be filed six months prior to the expected date of graduation.

**Employment.** Persons employed full time may carry only 5 to 6 hours of graduate courses per semester. Those employed half time should not take more than 9 hours. Associate Instructors' maximum credit load is dependent upon the number indicated in the assignment notice at the time of the appointment by the Dean.

## MASTER OF SCIENCE DEGREE

**Admission.** Those with a bachelor's degree from an accredited institution, or within one semester of meeting degree requirements, are eligible to apply for admission.

Unconditional admission may be granted to those with an approved undergraduate major or minor in health and safety, physical education, or recreation from a four-year accredited institution and with an undergraduate academic average of not less than 2.6 (A=4, B=3, C=2) and acceptable GRE scores. Conditional admission may be granted for those not eligible for unconditional admission after approval for admission by a review committee.

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

**Residence.** A minimum of 15 semester hours of graduate credit must be taken on the Bloomington campus. For other information see page 15.

**Adviser.** The complete program of each candidate will be planned cooperatively by the student and his adviser in terms of the student's educational background and objectives. All phases of the student's program are subject to the approval of the adviser.

**Hours Required.** With thesis a minimum of 30 semester hours of approved graduate course work is required in addition to five hours of credit which will be granted for a satisfactory thesis.

Without a thesis a minimum of 35 semester hours of approved graduate credit must be taken.

All candidates must earn 20 semester hours in approved graduate courses in the major field.

**Transfer of Credit.** Graduates of Indiana University may transfer a maximum of 10 semester hours of approved graduate credit from other accepted institutions.

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\* For information concerning incomplete grades and withdrawals, refer to the General Statement of this *Bulletin*.

Graduates of Indiana University who follow the nonthesis plan may transfer a maximum of ten semester hours of approved graduate credit from other accepted institutions. Graduates of other institutions who follow the nonthesis plan may transfer a maximum of five semester hours of approved graduate credit from other accepted institutions. Written request for transfer work must be recommended by the adviser and submitted for approval to the Graduate Division. Any graduate course work to be transferred must be approved in advance by the Director of Graduate Studies.

**Graduate Record Examination.** Submission of GRE scores (aptitude portion) is required of all graduate students. In the case of Master and Director candidates, temporary admission will be granted based upon other academic and professional criteria. Final admission status will be considered after receipt of GRE scores. This examination must be taken prior to coming to the campus in order to gain permanent status. Otherwise a temporary status is assigned. This examination must be taken by part-time as well as full-time graduate students.

**Thesis.** A student desiring to write a thesis will consult with his adviser who will guide him in all phases of the thesis development. After the thesis problem has been identified, the student must plan a detailed outline of his problem. Both the problem and the outline must be submitted to a Graduate Division Thesis Advisory Committee for approval.

**Graduation with Honors.** Candidates who maintain a 3.5 or better cumulative grade average, pass a comprehensive written examination in the major field, and have the recommendation of the departmental chairman and the Graduate Council are eligible for graduation with honors.

**Teacher Certification.** Those preparing to teach in the Indiana Public Schools, as a part of the requirements for the master's degree, should take a minimum of 8-9 hours in each teaching area in order to professionalize the State Teaching Certificate.

**Course of Study.** All candidates for the Master of Science degree are required to complete HPER T590. Credits earned in this course may count toward the twenty hours required in the major area (20 hours designated in Physical Education, Recreation, or Health and Safety). A total of 35 hours in all courses is required. The following HPER courses are required in the areas designated:

Master of Science in Health and Safety: H510, H516, ~~S550~~<sup>S557</sup>, T591, or T595.

Master of Science in Physical Education:

Coaching: T590, A583, P639, T593, P647, P538, P530, and electives—15 hours as prescribed by adviser.

Administration: T590, P544, T594, T593, Educ. S506, Educ. A508, P545, and electives—15 hours as prescribed by adviser.

Secondary School P.E.: T590, P537, P545, P548, P544, Educ. P516, P543, P540, and electives—13 hours as prescribed by adviser.

Elementary School P.E.: T590, P527, P535, P536, Mus. E555, P548, P545, and electives—15 hours as prescribed by adviser.

Experimental Research: T590, T591, T592, Educ. Y530, P640 or T599, course in area of interest, and electives—15-17 hours as prescribed by adviser.

General: T590, P545, P544, P547 or T591 or T595, P538, P530, P548, and electives—14 hours as prescribed by adviser.

Dance: T590, A591, P533, P647, Mus. E555 or P534, P647 and electives—17 hours as prescribed by adviser.

Adapted Physical Education: T590, T591, P535, Educ. K550, Educ. K576 or Educ. K543, P546, and electives—17 hours as prescribed by adviser.

Master of Science in Recreation: (You may choose one of the following courses of study):

Public Parks and Recreation—R500, R520, T594. Select 8 hours from: R530, R531, R532, R535, R540, T593.

Outdoor Recreation: R500, R520, R540. Select 8 hours from R530, R541, R542, R543, R550, R551.  
 Union Management: R500, R520, R580. Select 8 hours from: R642, T593, T594, and Educ. C544, C546, C675.

### MASTER OF PUBLIC HEALTH (M.P.H.) IN HEALTH EDUCATION (with a major in Community Health Education)

**Purpose of the Degree.** The M.P.H. in Health Education with an emphasis in Community Health Education is intended to prepare the health and safety education specialist to serve as a member of the staff of a health department, a voluntary health agency, a professional association, public health service, an international health program, such as the Peace Corps, or the World Health Organization, or in the capacity of coordinator of the school-community health and safety education program.

**Admission.** A candidate must be admitted to the Graduate Division of School of Health, Physical Education, and Recreation and hold a baccalaureate degree with the major in health and safety education or the equivalent, including Biology (9 semester hours), Sociology and/or Anthropology (6 semester hours), Psychology (6 semester hours), Health and Safety Education (12 semester hours). The candidate should have had two years of approved experience, usually in teaching or some aspect of public health service. Other requirements are GRE scores and letters of recommendation.

**Credit.** A minimum total of 40 semester hours of approved credit is required for the degree. The tentative pattern includes the following courses: T590, H510, H511, H512, H517, H523, H591, H609, H690. For information on the transfer of credit, residence, and adviser, see the requirements listed for the Master of Science degree, page 16.

### HEALTH COORDINATOR CERTIFICATE

The following pattern of courses and two years of practical experience qualifies one for the certificate of supervision in health education and for special recommendation as health coordinator: H510, H514, H516, H517, H523, H610, H618, ~~S550~~, T590, T593, T591 or T595.

### DIRECTOR'S DEGREE

**Purpose of Degree.** The director's degree is intermediate between the master's degree and the doctorate. It represents an opportunity for securing advanced professional preparation beyond the master's degree for those in or planning to be in supervisory, administrative, and/or master teaching positions in the fields of health and safety, physical education, and recreation.

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

**Admission.** To gain unconditional admittance a candidate must possess a minimum undergraduate grade-point average of 2.6 or better, graduate grade-point average of 3.3 or better, appropriate GRE scores, and three strong supportive letters of recommendation.

All requirements for the degree must be completed within six years after enrollment in courses as a degree candidate.

**Adviser.** The complete program of each candidate will be planned cooperatively by the student and his adviser in terms of the student's background and educational objectives. All phases of the student's program are subject to the approval of the adviser.

**Credit.** A minimum of four semesters of full-time study, or the equivalent, beyond the baccalaureate degree is required. A minimum of 60 semester hours of approved graduate credit is required of which three hours of credit will be granted for a satisfactory director's degree project. All candidates must earn or have earned a total of 30 semester hours of graduate credit in their major field. A minimum of 15 graduate credits must have been taken outside the areas of health, physical education, and recreation.

**Graduate Record Examination.** See pages 15 and 17 for further information.

**Residence.** Thirty semester hours of graduate credit must be taken at Indiana University. This must be in addition to residence credits required for the master's degree.

**Transfer of Credit.** Candidates may utilize a maximum of 30 semester hours of approved credit from approved institutions, including Indiana University, toward the 60-hour requirement.

**Course of Study.** All candidates for the director's degree are required to complete the following courses which may be counted toward the 30 semester hours required in the major area: T590, T591, T594, and T699. In addition, the following courses are required in the areas designated:

Director in Health and Safety (H.S. Dir.): H510, H514, T595\*, H516, ~~S550~~  
 Director of Physical Education (P.E. Dir.): P543, P544, P545, P546, P547.†  
 Director of Recreation (Re.Dir.): R500, R520.

### Director's Degree Project

All candidates for the director's degree are required to complete HPER T699, Director's Degree Project, involving a project pertinent to their major area.

A satisfactory project shall involve the investigation of a teaching, administrative, or supervisory *problem* in which purposes, functions, and problems are observed, analyzed, and evaluated. *In most cases, the project should not be started until all, or almost all, of the degree requirements are completed.*

The candidate will consult with his adviser in the selection and planning of his project. After the problem has been identified, the candidate must submit a detailed outline of the proposed investigation to his adviser for approval. Upon conclusion of the study, a comprehensive report will be written by the candidate and submitted to the adviser for approval. Conclusions and recommendations included in the report should indicate the candidate's grasp of teaching, supervisory, and/or administrative functions and reveal his ability to suggest solutions to problems which point the way toward improved administrative practice.

The director's project will be comprehensive, with the quality of the written work appropriate to a candidate seeking a degree beyond the Master of Science degree. The report will not be acceptable if it is merely an enlarged term paper. *Two bound copies* of the project report will be presented to the Graduate Division for placement in the school library and the *Graduate Division Office*.

### Final Examination

All candidates for the director's degree are required to pass a three-hour written comprehensive examination in their major area. This examination is taken at the announced dates. *When the candidate has completed all, or almost all, of his course work, and his adviser feels he is ready, he will be eligible to write on the director's examination.*

The adviser will prepare the examination. It will be designed to enable a student to demonstrate a thorough knowledge of his field and the ability to solve problems related

\* T591 should precede T595.

† T591 should precede P547.

to administration, organization, and programs. The examination will be evaluated by the adviser and two other graduate faculty members appointed by the Director of Graduate Studies. In the event of failure, the candidate may be permitted to retake the examination after a lapse of one full semester.

## DOCTOR'S DEGREE

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 Physical Education with a concentration in human performance area offered in the Graduate School but administered by the School of Health, Physical Education, and Recreation.

Also a Doctor of Physical Education degree is offered with an emphasis in adapted physical education.

**Doctor's Degree General Requirements.** Admission, appointment of Doctoral Advisory Committee, residence, and transfer of credit will follow the same procedures for all doctoral degrees granted from the School.

**Admission to Doctoral Study.** Application for admission to the Graduate Division must be accompanied by transcripts for all previous college work, three letters of recommendation, and a small photograph.

The candidate must also submit the results of the aptitude portion of the Graduate Record Examination to the HPER Graduate Division before being considered for admission to the doctoral degree program. Even though a prospective doctoral candidate may enroll as a nondegree student in some advanced courses, his doctoral status is left undetermined until he has taken the GRE. If the candidate is approved for Admission by the Graduate Council, the Director of Graduate Studies will appoint a chairman of the student's advisory committee to assist him in determining his course work.

If an applicant is *not* admitted to the doctoral program by a decision of the Graduate Council, he must take at least 15 hours of required doctoral graduate courses on the campus, including T590 and T591 before he can re-apply for admission. These courses shall not count toward the 30 hours on the campus required for residency. Any student has the right to request consideration for re-admission as a doctoral candidate and, in such case, should follow the regular procedure in making application.

Initial registration for courses must occur within 18 months after the date of acceptance as a student in the doctoral program. All course work and qualifying examinations must be completed within five years after the date of initial registration.

**Admission to Candidacy for the Doctoral Degree.** For admission to candidacy for a doctoral degree, the student must: (a) complete major and minor course requirements, (b) successfully complete one of the options for fulfilling the foreign language and/or statistics requirements, and (c) satisfactorily pass the qualifying examination. The student must be admitted to candidacy six months before the final oral examination can be scheduled.

**Doctoral Advisory Committee.** After some familiarity has been established with the courses and the faculty, the chairman will consult with the candidate concerning his choice of a Doctoral Advisory Committee. The chairman will then submit to the Director of Graduate Studies, for approval, the names of two or three additional faculty members to serve on the applicant's advisory committee, representing the major and minor(s) areas. The functions of the committee shall include: outlining the course of studies; supervising the total study program; conducting the qualifying and final examinations; recommending admission to candidacy; directing dissertation research; reporting periodically to the Director of Graduate Studies on the progress of the candidate; and certifying the completion of the work for the degree.

**Residence.** A minimum of 90 hours of approved graduate work is required for the degree. Two consecutive semesters of full-time course work must be taken on the

Bloomington campus. Full-time residence implies that the student is enrolled in no less than 9 hours per semester. Credit hours taken on the Bloomington campus in another school will count toward meeting the residence requirement for the School of Health, Physical Education, and Recreation.

**Transfer of Credit.** Not more than 45 semester hours of credit from other approved institutions may be accepted toward the hours of credit required for the doctorate. Course work to be transferred is determined by the doctoral committee.

**Qualifying Examination.** The student is requested to pass a comprehensive qualifying examination on the fundamentals of the fields in which he has elected to specialize. The examination will not be limited to the subject matter of the courses taken. Normally, the student must be registered during the session in which he expects to take the examination and must file an application for taking the examination in the Graduate Division Office of the School of Health, Physical Education, and Recreation.

The qualifying examination consists of a written phase followed by an oral phase. The purpose of this examination is to determine the adequacy of the student's knowledge in his field of specialization and related areas and his ability to pursue independent research. The oral phase of the examination is designed to test the student's ability to deal orally with concepts, issues, and problems of an academic and/or professional nature.

Before taking the examination in the field of specialization and related areas, the student must fulfill one of the options listed on the following pages under *Doctor's Degree Special Requirements*. The part of the qualifying examination dealing with research competency may be taken upon completion of T590, T591, and T592. The examination in the field of specialization and related areas will be taken when all or most of the student's program of studies is completed, and after the Research Competency Examination is passed. The satisfactory passing of the examination, 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. The Director of Graduate Studies shall notify the student and the doctoral committee when the student is admitted to candidacy. After admission to candidacy, the student will generally be registered for only dissertation research.

**Enrollment after the Qualifying Examination.** After passing his qualifying examination, a doctoral candidate must enroll each semester for thesis or research credit at the regular fee; or if he has enrolled in all of his thesis hours, he must enroll in Graduate G900, Candidate, a noncredit course. A candidate who will be graduated in September of any year must enroll in G900 the preceding summer session. Failure to meet this requirement will automatically terminate enrollment in the degree program. To be re-instated the candidate must go through admission procedures as outlined in this *Bulletin*.

To enroll in HPER T790, P799, or G900, the student must secure a Registration Card from his graduate school or division. This card should be filled out completely with the course to be taken clearly listed. The card should be sent to the Registrar's Office, Bryan Hall, Room 105, within three weeks after a semester has begun. The fee check, made payable to Indiana University, should accompany the Registration Card. Since G900 is not a regular credit course, the student will not receive a grade strip showing his enrollment nor will any notation be recorded on his permanent academic record regarding the enrollment. A receipt for the fee will be returned to the student to indicate that the student has been registered in the course for that semester. Arrangements can be made with the student's graduate school or division and the Registrar's Office to preregister in G900 or thesis for a maximum of two forthcoming semesters.

**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 his creative ability to identify and treat a significant problem; to collect, analyze, and interpret meaningful data by appropriate research methods; to

make valid generalizations upon the findings; and to present the study in acceptable, written form. The result should be a verifiable contribution to knowledge in the candidate's field. Completion of a dissertation normally requires at least one year of concentrated effort. The candidate submits his proposed dissertation problem to the chairman of his doctoral committee, together with an outline using an approved prospectus format and including a statement of research procedures to be used. If the topic and outline are approved by the chairman, they are then presented to the candidate's committee for approval. After approval by the committee, the research is conducted under the direction of the chairman. The committee will meet as called by the chairman for progress reports on the research being done. The acceptability of the completed dissertation is first passed upon by the chairman and then by the doctoral committee at a formal meeting.

The dissertation must be completed within five years after the successful completion of the qualifying examinations. When the completed dissertation is approved by the chairman, it will be typed in accordance with established regulations. At least *four weeks* before the final examination, four copies of the complete dissertation must be presented to the committee chairman for distribution to committee members. Each copy of the dissertation must be accompanied by a vita sheet inserted at the end. Also, a 600-word abstract must be submitted. After the final examination has been passed and the dissertation has been approved, three bound and one unbound copy of the dissertation must be filed in the Office of the Director of Graduate Studies.

**Publication of the Dissertation.** When the candidate is recommended for the degree, he must obtain an "Agreement" for microfilming the dissertation. Following are the conditions for publication:

The candidate will submit a 600-word abstract of the dissertation, approved by this committee. This abstract will appear in *Dissertation Abstracts*, published by University Microfilms, Inc., Ann Arbor, Michigan.

The unbound copy of the candidate's dissertation will be loaned to University Microfilms, Inc., for complete microfilming. The resulting film copies are available for purchase by all who request them. Copyright may be secured by the author if desired.

The unbound copy will be returned by University Microfilms, Inc., to the University Library where it will be bound. Three copies of the dissertation will be bound by the student at his expense. These copies must be submitted to the bindery within one week after the final acceptance of the dissertation. The fee for publishing the abstract and for the microfilming of the dissertation will be handled through the HPER Graduate Division.

**Final Examination.** The final oral examination will be conducted by the candidate's committee in the presence of such members of the graduate faculty as elect to attend. The candidate will be examined over his dissertation.

**Experience.** A minimum of two years of approved practical experience is normally required before the doctorate will be conferred.

## DOCTOR'S DEGREE SPECIAL REQUIREMENTS

### H.S.D., P.E.D., and Re.D. Degrees

**Program of Studies.** All candidates for the Doctorate of Health and Safety, Physical Education, and Recreation will take T590 and T591. These courses and those required on the options will not count toward the 30-hour major. Technical courses taken over and beyond the options will count on the major, if so stated by the student's doctoral committee.

Each candidate, in addition to his major field of study, 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 semester hours in a given field plus one of the options listed below. Normally, a minor will consist of not fewer than 15 semester hours in an area approved by the candidate's advisory committee. Minors within the School may be elected in health and safety, physical education, recreation, and measurement and

evaluation. Minors taken outside the School must include a minimum of 15 semester hours of course work. A minimum of 15 graduate credits must be taken outside of the areas of health, physical education, and recreation. Fifteen semester hours will be granted for the dissertation.

**Statistics and Language Options.** Students in the School of Health, Physical Education, and Recreation working toward the Physical Education, Health and Safety, or Recreation doctorate may elect one of the following options for fulfilling the foreign language and statistics requirements. Normally, this decision should be made at the time of the course prescription meeting.

*Option I*

Satisfactory completion of HPER T590, T591, T592  
Completion of the Research Competency Test

*Option II*

HPER T590, HPER T591, HPER T592, and HPER T693  
T693 is taken in lieu of the Research Competency Test (when T693 is used in this manner, it cannot be counted in the hours for the major). A grade of B or better must be made in each of the courses listed in order to meet the Option requirement.

*Option III*

Satisfactory completion of HPER T590 and HPER T591  
In addition attain reading proficiency in two approved foreign languages by passing examinations given by the language departments or by taking two courses in each of two languages, earning a grade of B or better in each course (16 hours).

*Option IV*

Satisfactory completion of HPER T590, HPER T591, and HPER T592  
In addition give evidence of reading proficiency in one approved foreign language by passing the examination given by the language departments or taking two courses in one language and earning a grade of B or better in each course (8 hours).  
Language courses taken for fulfillment of Option III or IV are not counted in the total hours used for the degree.

#### **Ph.D. with Concentration in the Area of Human Performance**

This degree is offered by the School of Health, Physical Education, and Recreation in conjunction with the Graduate School of the College of Arts and Sciences. Study in the area of human performance is designed to provide the student with a comprehensive understanding of the field of physical education, a working knowledge of research techniques that may be applied to problems in his area of interest, preparation in depth in the human performance area, and an understanding of a cognate field.

**Prerequisites.** A baccalaureate degree with a major or minor in physical education including courses in anatomy, physiology, and kinesiology. Appropriate science courses such as physics, chemistry, and mathematics should be offered as background.

**Grades.** Students must maintain a scholastic average of 3.5 on a 4.0 scale.

**Program of Studies.** Ninety hours beyond the baccalaureate degree, including 25 to 30 hours for the dissertation, 30 hours in the area of human performance, 15 hours outside the School of Health, Physical Education and Recreation in a cognate (minor) field; substantial amount of work in statistics. Deficiencies in course work must be made up during the first year of residence. Course work will be taken in the areas of biomechanics, growth and development patterns, motor learning, motor skill performance, and sports psychology. Courses taken for the Ph.D. must be listed in the Graduate School Bulletin and approved by the Graduate School.

A sample program is illustrated below:

	<i>Semester Hours</i>
Major Area .....	30 hours minimum
Minor .....	15 hours minimum
Minor .....	15 hours minimum
Dissertation .....	25-30 hours
Electives .....	0-5 hours
Total .....	90 hours

The student may elect two outside minors or one outside minor and one inside minor. In addition, language and tool requirements must be met.

All candidates for the Ph.D. will take T590 and T591 or their equivalents as prerequisites. These courses will not count toward the 30-hour major. Following is a list of major courses in Biomechanics: P530, Advanced Theories of High-Level Performance; P538, Mechanical Analysis of Human Performance; P637, Study of Factors Affecting Human Performance; P638, Biomechanics of Human Performance; P740, Research in Physical Education; P741, Readings in Human Performance; P742, Experimental Laboratory Techniques; T592, Statistical Techniques of Research in Health, Physical Education, and Recreation; T693, Experimental Analysis and Design. Elective courses are: P527, Growth and Physical Performance of the Pre-School and Elementary Child; P537, Relationship of Growth Patterns of the Junior High School Student to Physical Performance; P548, The Nature and Basis of Motor Skills; P639, Psychological Aspects of Sports.

**Language and Tool Skill Requirement.** A candidate for the Ph.D. degree in human performance must satisfy one of the following requirements: demonstrate proficiency in at least one foreign language and a tool skill, two languages at reading level competency, or comprehension in one foreign language in depth. (In each instance the choice is of German, French, and/or Russian). Exceptions to this list must be petitioned for through the HPER School and approved by the Graduate School.

**Tool Skill Requirement.** A candidate for the Ph.D. degree in human performance must satisfy one of the following in addition to the requirement of one foreign language.

Electronic Techniques (7 cr.)

Physics P307 Circuit Analysis and Electrical Measurements (4 cr.)

Physics P421 Electronics I (3 cr.)

Mathematics (6 cr.)

Any one of the following pairs of mathematics courses:

Mathematics M360 Elements of Probability Theory (3 cr.)

Mathematics M366 Elements of Statistical Inference (3 cr.)

or

Mathematics M360 Elements of Probability Theory (3 cr.)

Mathematics M463 Introduction to Probability Theory I (3 cr.)

or

Mathematics M366 Elements of Statistical Inference (3 cr.)

Mathematics M467 Statistical Techniques I (3 cr.)

or

Mathematics M303 Linear Algebra for Undergraduates (3 cr.)

Mathematics M311 Calculus III (3 cr.)

or

Mathematics M371 Elementary Computational Methods (3 cr.)

Mathematics M313 Elementary Differential Equations with Applications (3 cr.)

Audio-Visual (6 cr.)

Education R544 Production Techniques (3 cr.)

Education R574 Educational Motion Picture Production (3 cr.)

Educational Statistics (6 cr.)

Education Y603 Statistical Design of Educational Research (3 cr.)

Education Y604 Multivariate Analysis of Educational Research (3 cr.)

Hours and Grade-Point Average Requirements. A minimum of 124 semester hours of credit are required for graduation.

Quality points are assigned for purposes of determining the cumulative grade-point average as follows: A=4 credit points; B=3; ~~C=2~~; D=1; F or WF=0. No points are assigned for I, S, P, or W.

A minimum cumulative grade-point average of C (2.0) is required for the baccalaureate degree.

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.



## Undergraduate Division

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

### SPECIAL REQUIREMENTS AND RESTRICTIONS

**Correspondence Study.** Work taken in absence for credit may be accomplished through the Division of Continuing Education. However, entrance requirements of the School must have been satisfied prior to registration if the work is to be applied toward a degree. Special permission of the Dean of the School is required of students in residence on the Bloomington campus to register for correspondence work.

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

~~**Hours - Credit Points.** A minimum of 124 semester hours and 248 credit points are required for graduation.~~

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

**Teaching Certificates.** Students starting their undergraduate programs after September 1, 1963, will follow the new state certification requirements. Such students must confer with an adviser of the School for specific requirements. In most cases when a student completes his degree, he has also fulfilled requirements for teacher certification.

**Course Load.** A student is expected to carry from 13 to 16 hours of academic work a semester. Permission to carry fewer than 13 hours of work may be obtained only in special cases and from the Dean of the School of Health, Physical Education, and Recreation. A student who has made an average of at least three credit points for each hour taken in the semester immediately preceding may receive permission from the Dean to carry more than 18 hours. The maximum number of hours to be carried by a student is 19 hours.

*See new statement 2*

*Hours of Study - All - Ave. Requirements*

# Suggested Curricula

## Physical Education Major (40 hrs.) for Women

Four-year program (must include minor) leading to a Provisional Teaching Certificate and the Degree Bachelor of Science in Physical Education.

### Freshman Year

<i>First Semester</i>		Hours	<i>Second Semester</i>		Hours
First Aid .....	HPER H160	2	Team Sports .....	HPER W122	1
Physical Education for Majors	HPER W121	1	Introductory Rhythmic		
Introductory Psychology I	Psy. P101	3	Training .....	HPER W124	1
Freshman Literature I	Eng. L101	3	Human Anatomy .....	Anat. A215	5
Social or Behavioral Science		3	Arts and Crafts .....	HPER R273	2
Elementary Composition I	Eng. W131	2	Introduction to Teaching	Educ. F100	2
Electives (Minor Area)		2	Social or Behavioral Science		3
		—	Humanities .....		2
		16			—
					16

### Sophomore Year

Folk, Square, and Social			Modern Dance .....	HPER W103	1
Dance .....	HPER W224	1	Gymnastics, Tumbling,		
Physical Education in the			and Apparatus .....	HPER W222	2
Elementary School	HPER P290	2	Human Physiology	Physio. P215	5
Public Speaking I	Speech S121	2	Humanities .....		2
Human Development and			Electives (Minor Area)		6
Learning .....	Educ. P280	5			—
Humanities .....		3			16
Social and Behavioral Sciences		3			—
		—			
		16			

### Junior Year

Teaching of Team Sports	HPER W325	1	History and Principles of		
Sports Officiating	HPER W326	1	Physical Education	HPER P195	3
Kinesiology	HPER P397	3	Individual Sports	HPER W322	1
Organization of Health			Teaching of Modern Dance	HPER W324	1
Education .....	HPER H464	2	Adapted Physical Education	HPER P398	3
Social or Behavioral Sciences		2	Electives in General Education		4
Life and Physical Sciences		2 or 3	Electives (Minor Area)		4
Electives (Minor Area)		3 or 4			—
		—			16
		15			

### Senior Year

Teaching of Individual Sports	HPER W323	1	Organization and Administration of		
Basic Instruction in Physical Educa-			Physical Education	HPER W400	2
tion for Women (Hockey)	HPER W100	1	Laboratory Teaching in the Basic		
Tests and Measurements in			Instruction Program	HPER P495	1
Physical Education	HPER P493	3	Secondary Education and		
Methods of Teaching Physical Edu-			Guidance .....	Educ. S485	3
cation For Women	Educ. M457	3	Student Teaching in the		
Electives (Minor Area)		7	High School	Educ. M480	8
		—			—
		15			14

### Physical Education Major (40 hrs.) for Men

Four-year program (must include minor) leading to a Provisional Teaching Certificate and the degree Bachelor of Science in Physical Education.

#### Freshman Year

First Semester		Hours	Second Semester		Hours
History and Principles of Physical Education	HPER P195	3	First Aid	HPER H160	2
Physical Education for Majors	HPER M151	1	Physical Education for Majors	HPER M152	1
Introductory Psychology I	Psy. P101	2	Humanities (HPER 273)		2
Elementary Composition I	Eng. W131	2	Social or Behavioral Sciences		3
Social or Behavioral Sciences		3	Humanities		3
Electives (Minor Area)		3	Electives (Minor Area)		4
		<u>15</u>			<u>15</u>

#### Sophomore Year

Gymnastics and Rhythmic Program	HPER M131	1	Apparatus and Conditioning Programs	HPER M132	1
Introduction to Teaching	Educ. F100	2	Human Development and Learning	Educ. P280	5
Public Speaking I	Speech S121	2	Human Anatomy	Anat. A215	5
Introduction to Community Recreation	HPER R274	2	Humanities		3
Personal Health	HPER H363	3	Electives (Minor Area)		2
Electives (Minor Area)		5			<u>16</u>
		<u>15</u>			

#### Junior Year

Individual Sports	HPER M231	1	Team Sports	HPER M232	1
Basketball	HPER A184	1½	Baseball	HPER A185	1½
Track and Field	HPER A186	1½	Football	HPER A183	1½
Human Physiology	Physio. P215	5	Organization of Health Education	HPER H464	2
Physical Education in the Elementary School	HPER P290	2	Kinesiology	HPER P397	3
Electives (Minor Area)		4	Laboratory Teaching in the Basic Instruction Program	HPER P495	1
		<u>15</u>	or		
			Elective Physical Education Activities for Men	HPER M130	1
			Electives (Minor Area)		6
					<u>16</u>

#### Senior Year

Aquatics	HPER A384	1	Tests and Measurements in Physical Education	HPER P493	3
Methods of Teaching Physical Education: for Men	Educ. M456	3	Administration, Organization, and Supervision of Physical Education	HPER M444	3
Adapted Physical Education	HPER P398	3	Secondary Education and Guidance	Educ. S485	3
Humanities		3	Student Teaching in the High School	Educ. M480	8
Social or Behavioral Science		2			<u>17</u>
Electives (Minor Area)		2			
		<u>15</u>			

*Senior Physical Education Major*  
*1977-3*

## Health and Safety Major (40 hrs.) Men and Women

Four-year program leading to a Provisional Teaching Certificate and the degree Bachelor of Science in Health and Safety (possible minors: Biology, Physical Education, Social Studies; other minors available).

<i>First Semester</i>			<b>Freshman Year</b>	<i>Second Semester</i>			
			Hours				Hours
Introduction to Political Theory .....	Pol. Sci. Y105	3		Introduction to Psychology .....	Psych. P101	3	
Elementary Composition I .....	Eng. W131	2		First Aid .....	HPER H160	2	
Public Speaking I .....	Speech S121	2		General Anthropology .....	Anthro. A103	3	
Plant Biology .....	B101	5		Physical Education .....	HPER M130	1	
Physical Education .....	HPER M130	1		Electives (Hum) .....		7	
Electives .....		3				16	
		16				16	

<i>First Semester</i>			<b>Sophomore Year</b>	<i>Second Semester</i>			
			Hours				Hours
Introduction to Teaching .....	Educ. F100	2		Social Problems .....	Soc. S163	3	
Principles of Sociology .....	Soc. S161	3		Human Development and Learning .....	Educ. P280	5	
Basic Human Anatomy .....	Anat. A215	5		Basic Mammalian Physiology .....	Physio. P215	5	
Introduction to Community Recreation .....	HPER R274	2		Electives (Minor) .....		3	
Electives (Minor) .....		4				16	
		16				16	

<i>First Semester</i>			<b>Junior Year</b>	<i>Second Semester</i>			
			Hours				Hours
*Content and Materials in Safety Education .....	HPER S350	2		Chemistry <del>or</del> <sup>or</sup> .....		5	
Organization of Health Education .....	HPER H464	2		Elementary Chemistry <b>I</b> .....	Chem. C101	5	
Introduction to Mass Communication .....	<del>HPER</del> <sup>RAC</sup> C200	3		Personal Health .....	HPER H363	3	
Marriage and Family Interaction .....	H.Ec. H358	3		Environmental Biology .....	Biol. L350	3	
Kinesiology .....	HPER P397	3		Electives (Major, Minor) .....		5	
Electives (Major, Minor) .....		3				16	
		16				16	

<i>First Semester</i>			<b>Senior Year</b>	<i>Second Semester</i>			
			Hours				Hours
Methods of Teaching Health and Safety .....	Educ. M458	3		Student Teaching .....	Educ. M480	8	
Community Health Education .....	HPER H465	3		Principles of Secondary Education .....	Educ. S485	3	
Electives (Major, Minor) .....		10		Instructors Course in First Aid .....	HPER H460	2	
		16		Health Problems in the Community .....	HPER H366	3	
		16				16	

Ten hours of electives need to be selected from the following:

<i>Safety Education Emphasis</i>		
Traffic Safety Education for Teachers .....	HPER S356	4
Shooting Sports .....	HPER S351	2
Principles of Transportation .....	Bus. T300	3
<del>Traffic Regulations and Control .....</del>	<del>Fors. P341</del>	<del>3</del>
Preparation of Inexpensive Instructional Materials .....	Educ. R543	2
Industrial Safety Education .....	HPER S457	3

<i>Health Education Emphasis</i>		
Health Problems of Exceptional Children .....	HPER H364	3
Physiology of Exercise <sup>H.Ec. H358</sup> .....	Physio. P309	4
The Family .....	Soc. S416	3
Adapted Physical Education .....	HPER P398	3
Human Nutrition .....	H.Ec. H231	2

\* Completion of S350 and S356 meets the state certification requirement in driver and traffic safety education.

### Recreation Major

\*Four-year program leading to the degree Bachelor of Science in Recreation (emphasis: Public Recreation and Parks).†

#### Freshman Year

<i>First Semester</i>		<i>Second Semester</i>	
	Hours		Hours
Public Speaking .....	Speech S121 2	Plant Biology .....	Bot. B101 5
Art Elective .....	3	Principles of Sociology .....	Soc. S161 3
Introductory Psychology .....	Psy. P101 3	Appreciation of Music I .....	Music M174 3
Elementary Composition .....	Eng. W131 2	Camp Crafts .....	HPER R276 2
Recreational Leadership .....	HPER R180 2	Basic Instruction in Physical Education .....	1
First Aid .....	HPER H160 2	Elective .....	1
Basic Instruction in Physical Education .....	1		15
	<u>15</u>		

#### Sophomore Year

Freshman Literature I .....	Eng. L101 3	Introductory Horticulture .....	Bot. B215 2
Professional Orientation .....	HPER R270 1	School Garden Management .....	Bot. B216 2
Principles of Economics I .....	Econ. E201 3	Modern Literature and the Arts .....	Comp. Lit. C225 2
Introduction to Dramatic Production .....	Theatre T214 3	Camp Counselor's Training Course .....	HPER R275 2
Introduction to American Politics .....	Polit. Sci. Y103 3	Introduction to Community Recreation .....	HPER R274 2
Elective Physical Education Activities for Men .....	HPER M130 1	Elective Physical Education Activities for Men .....	HPER M130 1
or		or	
Basic Instruction in Physical Education for Women .....	HPER W100 1	Basic Instruction in Physical Education for Women .....	HPER W100 1
Electives .....	2	Electives .....	5
	<u>16</u>		<u>16</u>

#### Junior Year

Journalism Elective .....	3	Urban Politics .....	Polit. Sci. Y308 3
Conservation of Natural Resources .....	Geog. G315 3	The Community .....	Soc. S309 3
The Psychology of Childhood and Adolescence .....	Psy. P316 3	The Psychology of Learning .....	Psy. P325 3
Community Centers and Playgrounds .....	HPER R373 3	Social Recreation .....	HPER R469 3
Aquatics (men) .....	HPER A384 1	Office Management I .....	Bus. C300 2
or		Electives .....	1
Introductory Rhythmic Training (women) .....	HPER W124 1		15
Electives .....	2		
	<u>15</u>		

#### Senior Year

Publicity and Public Relations .....	Jour. J427 3	Community Sports .....	HPER R278 2
Business and Professional Speaking .....	Speech S223 3	Utilization of Audio-Visual Materials .....	Educ. R423 3
Senior Seminar in Recreation .....	HPER R460 2	Arts and Crafts .....	HPER R273 2
Introduction to Park Management .....	HPER R463 2	Youth Service Organization .....	HPER R374 2
Introduction to Landscape Architecture .....	HPER R464 2	Student teaching in Recreation .....	Educ. M485 8
Electives .....	3		17
	<u>15</u>		

\* By selecting appropriate courses the student may also qualify for a Provisional Teaching Certificate in Recreation.

† Requirements for options in camping and outdoor recreation, therapeutic recreation, or youth service organizations may be obtained by writing the Department.

## Dance Major

Four-Year program with a concentration in Dance leading to a Provisional Teaching Certificate and the degree Bachelor of Science in Physical Education.

## Freshman Year

<i>First Semester</i>	Hours	<i>Second Semester</i>	Hours
Introductory Psychology .....Psy. P101	3	Introduction to Teaching .....Educ. F100	2
Elementary Composition .....Eng. W131	2	Modern Dance .....HPER W103	1
Freshman Literature .....Eng. L101	3	Introductory Rhythmic Training .....HPER W124	1
First Aid .....HPER H160	2	Human Anatomy .....Anat. A215	5
Humanities .....	3	Social and Behavioral Sciences .....	3
Social and Behavioral Sciences .....	3	Humanities .....	3
	16		15

## Sophomore Year

Physical Education for Majors HPER W121	1	Human Physiology .....Physio. P215	5
Advanced Modern Dance I ...HPER W201	1	Introduction to Philosophy .....Phil. P100	3
Human Development and Learning .....Educ. P280	5	Advanced Modern Dance II ...HPER W202	1
Dance and Allied Arts I ..... HPER W311	3	Dance and Allied Arts II .....HPER W312	3
Humanities .....	3	Teaching of Modern Dance ...HPER W324	1
Life and Physical Sciences .....	3	Dance Workshop .....HPER W214	1
	16	Social and Behavioral Sciences .....	2
			16

## Junior Year

Kinesiology .....HPER P397	3	History and Principles of Physical Education .....HPER P195	3
Organization of Health Education .....HPER H464	2	Adapted Physical Education ...HPER P398	3
Theory and Practice of Dance Techniques I .....HPER W301	1	Theory and Practice of Dance Techniques II .....HPER W302	1
Dance Composition I .....HPER W211	2	Dance Composition II .....HPER W212	2
Dance Production I .....HPER W411	3	Dance Production II .....HPER W412	3
Folk, Square, and Social .....HPER W224	1	Rhythmic Form and Analysis ...HPER W213	2
Dance Workshop .....HPER W214	1	Individual Sports .....HPER W322	1
Social and Behavioral Sciences .....	3	Dance Workshop .....HPER W214	1
	16		16

## Senior Year

Dance Summary I .....HPER W401	1	Dance Summary II .....HPER W402	1
Methods of Teaching Physical Education for Women .....Educ. M457	3	Student Teaching in the High School .....Educ. M480	8
Teaching of Individual Sports .HPER W323	1	Secondary Education and Guidance .....Educ. S485	3
Laboratory Teaching in the Basic Instruction Program ...HPER P495	1	Dance in Elementary Education .....HPER W223	1
Musical Resources for Dance ...HPER W328	2	Organization and Administration of Physical Education .....HPER W400	2
Dance Workshop .....HPER W214	1		
General Education .....	7		
	16		15

~~\* Effective for students beginning their programs in the academic years numbered 1972-73, 1974-75, 1976-77, etc.~~

### Athletic Training Emphasis

The Athletic Training Emphasis may be earned in conjunction with the major in Health and Safety Education or with the major in Physical Education. Specific course requirements leading to this endorsement are shown below.

#### *Option Health and Safety*

B.S. in Health and Safety with the Athletic Training Emphasis.

In addition to the pattern for the Health and Safety Major (p. 28) the following courses should be taken to meet the requirements for the Athletic Training emphasis:

		Hours			Hours
Orientation in Athletic Training I	HPER A181	1	Scientific Foundations of Athletic Training	HPER A383	3
Orientation in Athletic Training II	HPER A182	1	Advanced Techniques in Athletic Training	HPER A481 or A482	2
Techniques of Conditioning and Bandaging for the Athletic Trainer I	HPER A281	2	Football	HPER A183	1½
Techniques of Conditioning and Bandaging for the Athletic Trainer II	HPER A282	2	Basketball	HPER A184	1½
Laboratory Practice in Athletic Training I	HPER A381	2	Baseball	HPER A185	1½
Laboratory Practice in Athletic Training II	HPER A382	2	Track and Field	HPER A186	1½
			Kinesiology	HPER P397	3
			Adapted Physical Education	HPER P398	3
			Physiology of Exercise	HPER P309	4

#### *Option Physical Education*

B.S. in Physical Education with the Athletic Training emphasis.

In addition to the pattern for the Physical Education Major (p. 27) the following courses should be taken to meet the requirements for the Athletic Training emphasis:

Orientation in Athletic Training I	HPER A181	1	Laboratory Practice in Athletic Training II	HPER A382	2
Orientation in Athletic Training II	HPER A182	1	Scientific Foundations of Athletic Training	HPER A383	3
Techniques of Conditioning and Bandaging for the Athletic Trainer I	HPER A281	2	Advanced Techniques in Athletic Training	HPER A481 or A482	2
Techniques of Conditioning and Bandaging for the Athletic Trainer II	HPER A282	2	Personal Health	HPER H363	3
Laboratory Practice in Athletic Training I	HPER A381	2	Methods of Teaching Health and Safety	HPER M458	3
			Human Nutrition	Home Ec. H231	2
			Physiology of Exercise	HPER P309	4

# Courses in the School of Health, Physical Education, and Recreation, 1972-73 1973-74

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

## ATHLETICS

### \*A181-A182 Orientation in Athletic Training I-II (1-1 cr.)

I. Provides classroom orientation to theory of athletic training with emphasis on prevention and care of injuries. II. Devoted to orientation of equipment, procedures, keeping of records in athletic training room. Opportunity to observe training room techniques.

### A183 Football (1½ cr.)

Fundamentals of offensive and defensive line and backfield play; technique of forward passing; outstanding rules; offensive plays most frequently used defenses.

### A184 Basketball (1½ cr.)

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.

### A185 Baseball (1½ cr.)

Fundamentals of pitching, catching, batting, base running, infield and outfield play; offensive and defensive strategy; organization and management.

### A186 Track and Field (1½ cr.)

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.

### †A281-A282 Techniques of Conditioning and Bandaging for the Athletic Trainer I-II (2-2 cr.)

Provides opportunity for students to learn skills of bandaging, taping, and first aid methods associated with the prevention and care of athletic injuries. Athletic training room assignments provide practical experience.

### †A381-A382 Laboratory Practice in Athletic Training I-II (2-2 cr.)

Laboratory hours assigned so that students have opportunity to practice athletic training skills during all sport seasons. Much of this work is under direction and supervision of the Director of the Indiana University Student Health Center and the Athletic Team Physician.

### ‡A383 Scientific Foundations of Athletic Training (3 cr.)

Classroom course dealing with theory of preventive taping and conditioning; budgeting; selection and care of athletic equipment and supplies; use of modalities and supplies; nutritional needs and stress concept as it relates to training and conditioning psychological and emotional needs of the athlete.

### A384 Aquatics (1 cr.)

Techniques of crawl, back, and breast strokes and springboard diving. Swimmers of sufficient ability are taught standard Red Cross Life Saving. When prospective teachers are in the majority, some attention centered on teaching methods.

### A385 Technique of Wrestling (1 cr.)

Three basic purposes: a better understanding and appreciation of collegiate and high school wrestling; teaching the basic fundamentals of wrestling—takedowns, escapes, reversals, pinning combinations, and counter maneuvers, for each; interpreting and insuring proper use of amateur wrestling rules.

### †A481-~~A482~~ Advanced Techniques in Athletic Training (2-2 cr.)

Provides experience through service to University athletic teams, intramurals, high schools, Little 500 bicycles race, and other special events. Students work under experienced medical and athletic training supervisors.

\* Required of freshmen with an emphasis in athletic training.

† Open only to students with an athletic training emphasis.

‡ Required of athletic training students and open also to HPER juniors and seniors with permission of the instructor.

A483 Principles of Sports Officiating (2 cr.)  
Ethics of sports officiating; mastery, interpretation, and application of sports rules. Laboratory and classroom experiences.

\*A485 Advanced Undergraduate Techniques (cr. arr.)

Advanced preparation in techniques of teaching such sports and activities as swimming, wrestling, football, baseball, track and field, minor athletic games, gymnasium floor apparatus, and rhythmic.

A583 Administrative Theory of Competitive Sports Programs (3 cr.)

Organization of high school athletics with reference to national, state, and local control. Staff, program, budget, health and safety, facilities, and other phases of administration.

A640 Independent Study and Research (cr. arr.)

Independent research conducted under guidance of a graduate faculty member.

A642 Internships in Athletics (2-5 cr.)

Off-campus professional field experience in school or agency situation under qualified supervision. Offered only after completion of course work for master's degree.

A643 Practicum in Athletics (cr. arr.)

Practical field experience under supervision and seminar discussions.

*A581 Principles of Coaching in Athletic Training (3 cr.) - Organizing, planning, and conducting of athletic training programs. Emphasis on safety and health education. Open to superior students at junior and senior levels. Admission by invitation only. Experiences related to various types of injuries, first aid, conditioning and conditioning program.*

## HEALTH EDUCATION

(See also Safety Education)

H160 First Aid (2 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.

H363 Personal Health (3 cr.)

Acquaints prospective teachers with basic personal health information; provides motivation for intelligent self-direction of health behavior with emphasis on responsibilities as citizens and as teachers. Study of physiological and psychological bases for health, drugs and other critical issues, and family health.

H364 Health Problems of Exceptional Children (3 cr.)

Causes of mental and physical deviations from normal are studied; basis for health inspection duties of teachers; organization of health lessons and utilization of health situations for health education; restricted and adapted physical activities suitable for exceptional children.

H366 Health Problems in the Community (3 cr.)

Human ecology as it relates to interaction of social and physical phenomena in solution of community health problems. Considers the promoting of community health, programs of prevention, environmental health, and health services.

H460 Instructor's Course in First Aid (2 cr.)

P: standard first aid certificate or completion of H160. Advanced consideration of first aid subject matter; orientation in methods, techniques, and teaching devices in first aid courses; practical classroom instruction required. Completion of courses qualifies one for instructor's certificate.

H464 Organization of Health Education (2 cr.)

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

H465 Community Health Education (3 cr.)

Place of the teacher in community health education program. Considers need of program, various media and methods which may be employed, place of existing agencies in the program.

H490 Critical Issues 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.

H510 Organization and Administration of the School Health Program (3 cr.)

Public health laws relating to schools, cooperation and coordination of community agencies, environmental factors, school health services, health instruction, evaluation of program.

H511 Epidemiology (3 cr.)

A non-medical introduction to epidemiological approach in public health. Consideration of selected communicable and noncommunicable diseases of special concern in public health practice with emphasis on role of education in disease control.

\* Open only to majors in the School of Health, Physical Education, and Recreation.

- H512 Environmental Health Science (3 cr.)  
Principles of environmental health and public health sanitation; elements of microbiology and communicable disease control, water supply, sewage treatment and stream pollution control, food and drug control standards, insect and rodent control, miscellaneous environmental hazards such as air pollution, radiological health, industrial hygiene, solid waste disposal.
- H513 Problems in Content and Method in Health Education (2 cr.)  
For experienced health educators. Information, with experimental and other forms of research, on content of instruction at various levels. Suitability of method as determined by need, interest, and comprehension ability.
- H514 Supervisory Problems of Health and Safety Education in Elementary School (3 cr.)  
Problems in education for health and safety from kindergarten to eighth grade. For elementary school teachers, principals, supervisors.
- H516 Health Education Curriculum (3 cr.)  
Organization and development of school health education curriculum and consideration of courses of study; discrimination between curriculum and course of study; techniques for course of study construction. Laboratory work.
- H517 School and Community Health Workshop (3 cr.)  
Democratic procedures in seeking solutions to "felt health program problems" of school and community. State agencies interested in various health problems cooperate.
- H519 Problems and Issues in Health (3 cr.)  
Health aspects and health education implications of current problems and issues, including smoking, alcohol and drugs, venereal disease, and other critical health problems. Lectures by leading authorities in cooperation with state voluntary and official health agencies.
- ~~H520 Problems of Athletic Injuries as They Concern the Coach (2 cr.)~~  
~~Training program, including training table, athletic trainer's supplies, use of therapeutic equipment. Discussion, demonstration, laboratory experiences related to various techniques used in conditioning and bandaging.~~
- H523 Community Health Organization (3 cr.)  
Organizational structure and functions of public health program; considers official health agencies, nonofficial health agencies, professional associations, sponsored agencies, civic and service clubs; how health agencies meet public needs.
- H591 Public Health Statistics (3 cr.)  
Designed to acquaint the public health educator with collection, organization, and interpretation of data pertinent to public health and vital statistics; includes introduction to statistical methods, population data, mortality and morbidity rates, ratios and life tables.
- H609 Public Health Education (3 cr.)  
P: HPER H510 and H523. Stresses group communications such as skillful writing, effective speech, use of various communications media; applies principles and procedures of group and intergroup dynamics to work of voluntary and official health agencies in the health education of the public.
- H610 Coordinating the Health Program in the School and Community (3 cr.)  
Functions of health coordinators in coordination of healthful living, health service, and health instruction; school and community health programs; relationship of health agencies; use of school health committees and community councils.
- H617 Seminar in Health Education (cr. arr.)  
Problems in the field of health and safety education.
- H617 Seminar in Health Education (Alcoholism, Alcohol Education, and Drug Misuse) (3 cr.)  
Workshop planned especially for teachers, social workers, and clergymen; program includes lectures and discussion of physiology of alcohol; sociological, medical, and psychiatric aspects; theological and legal problems; drug use and misuse; educational principles related to teaching and counseling in these problem areas.
- H617 Seminar in Health Education (Medical Self-Help and Disaster Preparedness) Instructor's Course (3 cr.)  
Up-dates teachers, administrators, and other school personnel in the new concepts of emergency care and family survival. Reviews medical self-help and the Personal and Family Survival courses as offered by Civil Defense. Offers American Red Cross Instructor's Training Material and gives certification to those qualifying.
- H618 School Health Surveys (3 cr.)  
Techniques and standards in making surveys of healthful school living policies, health service, health instruction. Survey of a school health program.
- H640 Independent Study and Research (cr. arr.)  
Independent research conducted under guidance of a graduate faculty member.
- H641 Readings in Health Education and Safety Education (cr. arr.)  
Guided readings for broadening information and understanding of the profession. Restricted to advanced masters and directors candidates.

- H642 Internships in Health Education and Safety Education (2-5 cr.)  
Off-campus professional field experience in school or agency situation under qualified supervision. Offered only after completion of course work for master's degree.
- H643 Practicum in Health Education and Safety Education (cr. arr.)  
Practical field experience under supervision and seminar discussions. Grading for this course should be Pass-Fail basis.
- H690 Field Experience in Public Health (2-8 cr.)  
Practical experience in public health education through assignment to a public health department, voluntary health agency, or equivalent agency in field of health and safety education. Project report required.
- H740 Advanced Research in Health Education and Safety Education (cr. arr.)  
In-depth research by directorate or doctoral candidate.
- H741 Advanced Readings in Health Education and Safety Education (cr. arr.)  
Guided readings for broadening information and understanding of field or specialty.

### PHYSICAL EDUCATION FOR MEN

- M130 Basic Instruction in Physical Education for Men (1 cr.)  
Instruction in basic sports skills for male University Division students. Reasonable competence in individual and dual sports stressed; physical limitations considered; emphasis on carry-over value of recreational sports and need for continued physical fitness.
- M131 Gymnastics and Rhythmic Programs (1 cr.)  
Tumbling, simple stunts, pyramid building, marching tactics, calisthenics, folk dancing, square dancing, and polyrhythmic activities. Performance of these skills developed; teaching techniques, methods of class organization, and safety procedures stressed. Opportunity to practice use of teaching skills.
- M132 Apparatus and Conditioning Programs (1 cr.)  
Beginning and intermediate stunts and routines on the parallel and horizontal bars, side and long horses, trampoline, and rings; methods of organizing and conducting classes and teaching and sporting hints; principles of physiological conditioning.
- M151 Physical Education for Majors I (1 cr.)  
Instruction in tennis and archery for male University Division students with a declared major in physical education.
- M152 Physical Education for Majors II (1 cr.)  
Instruction in bowling and golf for male University Division students with a declared major in physical education.
- M231 Individual Sports (1 cr.)  
Teaching of and participation in activities not included in other skill courses in curriculum. Emphasis on teaching aspect of the activity.
- M232 Team Sports (1 cr.)
- M249 Rhythmic Techniques (1 cr.)  
Twenty-five to thirty folk and gymnastic dances and singing games suitable for playground, gymnasium, community center, and recreation in general.
- M335 Elective Physical Education Activities for Men (1-2 cr.)  
Instruction in sports for those with some prior knowledge and skills to increase competence beyond beginning level.
- M444 Administration, Organization, and Supervision of Physical Education (3 cr.)  
Philosophy and methodology of organizing and administering physical education, intramural, and athletic programs from standpoint of the teacher. Role of physical education teacher in conduct of the school health program and school recreation program.

### PHYSICAL EDUCATION

- P195 History and Principles of Physical Education (3 cr.)  
Understanding and interpretation of principles of modern physical education program. Contributions of historical programs related to development of present-day program.
- P290 Physical Education in the Elementary School (2 cr.)  
Games and physical education activities suitable for elementary school physical education programs; philosophy of elementary physical education, various teaching techniques and methods, conducting of tournaments, implementing safety. Students teach each other for practice.
- P354 Problems of Teaching Rhythms in Elementary Grades (2 cr.)  
For elementary and physical education teachers working with elementary pupils.
- P397 Kinesiology (3 cr.)  
P: Anatomy A215. Application of facts and principles of anatomy, physiology, and mechanics to problems of teaching physical education skills and activities of daily living.

- P398 Adapted Physical Education (3 cr.)  
P: Anatomy A215 and HPER P397. Study of conditions which require physical education program 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 conditions.
- 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.
- P495 Laboratory Teaching in the Basic Instruction Program (1 cr.)  
Pre-practice teaching experience. Laboratory phase includes assisting in conduct of basic instruction program. Classroom discussion of pertinent problems of teaching physical education.
- P499 Undergraduate Research in Health, Physical Education, Recreation, Safety, or Athletics (cr. arr.)
- P527 Growth and Physical Performance of the Pre-School and Elementary School Child (3 cr.)  
P: Psychology P316 or equivalent to Psychology of Childhood and Adolescence or its equivalent. A study of the physical development and characteristic reactions of children, pre-school and elementary, in relation to movement and performance. Identification of the special needs of children as related to performance skills. Integration of human performance with physical activity in learning environments.
- P530 Advanced Theories of High Level Performance (3 cr.)  
A study of experimental and empirical theories of high level performance, including means of acquiring physiological endurance. Presentation of fluid mechanics.
- P533 Theory and Techniques of Dance for High School and College (3 cr.)  
For high school and college teachers. Theory and practical work; development of skills which make the body an instrument of expression.
- P534 Problems of Teaching Rhythms in Elementary Grades (3 cr.)  
A course especially designed for elementary teachers and physical education teachers working with elementary children. Theory and practical approach in teaching dance movement.
- P535 Physical Education in the Elementary School (3 cr.)  
Games, rhythms, self-testing activities appropriate to physiological, psychological, and emotional development. Organization of the program, scheduling of classes, allocation of facilities and equipment. For specialists in physical education, classroom teachers, elementary school administrators.
- P536 Principles and Practices in Supervision of Physical Education in the Elementary School (3 cr.)  
Educational philosophies underlying modern physical education programs. Relationship of elementary physical education to the total curriculum. In-service programs to assist classroom teachers and specialists in planning games, rhythms and self-testing techniques. Scheduling of indoor and outdoor facilities, blueprinting of gymnasium and playground areas, public relations programs.
- P537 Relationship of Growth Patterns of the Junior High School Student to Physical Performance (3 cr.)  
P: HPER P535 or equivalent. Study of effects of experiences in complex movement patterns on growth and development of junior high school student.
- P538 Mechanical Analysis of Human Performance (3 cr.)  
P: ~~Physics P201 and P202 or their equivalent.~~ <sup>Physics P201 and P202</sup> Analysis and measurement of human performance; theories of performance: examination of mechanical principles: individual studies.
- P539 Facilities for Physical Education, Recreation, Health and Safety (3 cr.)  
Principles, terminology, standards for planning, construction, use, maintenance of facilities for indicated programs, standard authoritative references studied and critically evaluated.
- P540 Organization and Administration of Intramural Sports (2 cr.)  
History, present status, objectives of intramural movement; organization, and affiliation with other departments; units of competition from elementary to college level; program of activities, group, team, and individual schedule-making and scoring plans; rules and regulations, awards, special administrative problems.
- P543 Supervision in Physical Education (3 cr.)  
Principles, problems, relationships, procedures in supervision of physical education.
- P544 Administration of Physical Education (3 cr.)  
Principles, problems, procedures for administering a city physical education program from viewpoint of city director or school administrator.
- P545 The Physical Education Curriculum (3 cr.)  
Principles, problems, procedures in development of physical education curriculum; developing a course of study in physical education for a chosen situation.
- P546 Movement Performance of the Exceptional Child (3 cr.)  
P: HPER P398 or equivalent. Movement performance of the exceptional child appraised; consideration given to study of characteristics of physically and mentally handicapped children and their limitations in movement performance and adaptations in physical activities. Means of assessing performance of handicapped children is included.

- P547 Measurement and Evaluation in Physical Education (3 cr.)  
Theory of measurement in health and physical education, selection and administration of appropriate tests, interpretation of results by statistical procedures. Project required to apply theory involved.
- P548 The Nature and Basis of Motor Skill (3 cr.)  
Factors that make for successful motor performance; review of available psychological data as applied to problems of motor performance.
- P549 Organization of Physical Therapy (2 cr.)  
Special fields of physical rehabilitation; use of exercise, massage, heat, water, electricity, various forms of radiation in public schools; some demonstrations.
- E555 Methods in Three Arts: Art, Dance, Music (K-12) (3 cr.)  
A creative approach to teaching art, dance, and music. Includes theory and experience in presenting the three arts through team teaching, with lectures and laboratory opportunities.
- P556 Problems in Adapted Physical Education (3 cr.)  
P: P546 or its equivalent. A study of problems as they relate to philosophy, procedures, and practices in Adapted Physical Education.
- P630 The Role of Sports in Society (3 cr.)  
Significance of sports in society; examination of relationship of sports to other elements of the culture; how sports contribute to human welfare in advanced technological society.
- P635 Problems and Issues in Higher Education in Physical Education (3 cr.)  
Historical review; purposes of higher education at several levels and review of curricula emphases at each level; problems of selection, guidance, placement, facilities; retention of personnel; methods and policies in higher education; pertinent issues and trends.
- P637 Study of Factors Affecting Human Performance (3 cr.)  
P: HPER P538 or equivalent. Study of human movement based on scientific foundations of human performance, including advanced kinesiological theories and neuromuscular integration.
- P638 Biomechanics of Human Performance (3 cr.)  
P: P538 or equivalent. Analysis of selected research in biomechanics; use of cinematographic and other techniques for study of human performance; individual studies.
- P639 Psychological Aspects of Sports (3 cr.)  
Study of psychological factors affecting sports competition; principles of motor learning and performance applied to participation in sports activities; special projects.
- P640 Independent Study and Research (cr. arr.)  
Independent research conducted under guidance of a graduate faculty member.
- P641 Readings in Physical Education (cr. arr.)  
Guided readings for broadening information and understanding of the profession. Restricted to advanced Masters and Directors candidates.
- P642 Internships in Physical Education (2-5 cr.)  
Off-campus professional field experience in school or agency situation under qualified supervision. Offered only after completion of course work for master's degree.
- P643 Practicum in Physical Education (cr. arr.)  
Practical field experience under supervision and seminar discussions. Grading for this course should be Pass-Fail basis.
- P646 Current Issues in Adapted Physical Education (3 cr.)  
Identification, analysis and evaluation of current issues, research and trends in adapted physical education.
- P647 Seminar in Physical Education (cr. arr.)  
Problems in physical education.
- P740 Research in Physical Education (cr. arr.)
- P741 Readings in Human Performance (2-5 cr.)  
Advanced readings in one or more of the areas in physical education including biomechanics, physiology of exercise, and sports psychology, encompassing domestic and foreign publications.
- P742 Experimental Laboratory Techniques (2-5 cr.)  
Experimental investigation of problems in the area of human performance, including laboratory design and advanced research techniques.
- P799 Ph.D. Thesis (25-30 hrs.)

## RECREATION AND PARK ADMINISTRATION

- R180 Recreation Leadership (2 cr.)  
History, theory, and philosophy of recreation. Significance of recreation in age of leisure and evolution of recreation movement. Practical leadership techniques for low organized recreation activities, especially helpful in elementary education.

- R270 Professional Orientation (1 cr.)  
Introduces student to professional areas within field of recreation. A laboratory with extended visits to recreation agencies and interviews with active recreation professionals. Required of all recreation majors.
- R273 Arts and Crafts (2 cr.)  
Principles and techniques of arts and crafts for school, hospital, youth agency, recreation center, playgrounds, and other areas.
- R274 Introduction to Community Recreation (2 cr.)  
Study of scope of community recreation; its organization, and relation to other social institutions; program content and leadership.
- R275 Camp Counselor's Training Course (2 cr.)  
Role of counselors in relation to objective, organization, guidance, leadership skills, program resources in organized camps.
- R276 Camp Crafts (2 cr.)  
Skills in outdoor cookery, lashing, campfire programs, map and compass, and use of native materials and nature lore.
- R278 Community Sports (2 cr.)  
Role of sports in community recreation; organization, planning, conducting of sports programs, case studies of successful operations.
- R373 Community Centers and Playgrounds (3 cr.)  
Varied aspects of playgrounds and community center operation; leadership techniques; outlines programs, and considers problems relating to planning and operation of these programs.
- R374 Youth Service Organization (2 cr.)  
Objectives, organization, program, and membership of principal national youth membership agencies.
- R460 Senior Seminar in Recreation (2 cr.)  
Current issues and problems in recreation profession. Culminating experience to facilitate transition between academic and professional experience.
- R463 Introduction to Park Management (2 cr.)  
Management principles and techniques as related to park areas, facilities, personnel, finance.
- R464 Introduction to Landscape Architecture (2 cr.)  
Landscape design, planting materials, plant care for proper settings.
- \*R465 Introduction to Therapeutic Recreation (2 cr.)  
Philosophic concepts of recreation as therapy; internal organization of treatment settings; unique contributions of recreation in treatment and rehabilitation processes.
- R469 Social Recreation (3 cr.)  
Planning, conducting, and evaluating activities and programs for various types of social events.
- R470 Professional Field Experience in Recreation (8 cr.)  
Experience in recreation planning, leadership, supervision, and program evaluation through working in community recreation public or agency program under local department and University faculty supervision.
- R500 Philosophy of Leisure and Recreation (3 cr.)  
Exploration of philosophical foundations for recreation in a dynamic society; challenge of increased leisure and role of recreation in present and predicted environments.
- R501 Leisure, Recreation, and Public Education (3 cr.)  
An in-depth exploration of the challenge of leisure education. Each student researches and plans for leisure education in his own professional setting.
- R510 Focus: Recreation in Special Settings (3 cr.)  
Course content will focus on different current problem settings (i.e., inner city, rural recreation, community organization, industrial recreation).
- R515 Special Concerns in Parks and Recreation (cr. arr.)  
Short term seminar for graduate students in recreation utilizing outstanding authorities in parks and recreation as visiting lecturers.
- R520 Administration of Recreation and Parks (3 cr.)  
Organization and administration of recreation on federal, state, local levels; legislative provisions, government control, financing, budget, personnel, departmental organization, administrative practices, especially on local level.
- R530 Surveys and Comprehensive Planning (3 cr.)  
Analysis and development of recreation surveys and comprehensive plans at federal, state, regional, and community levels. Emphasis on planning elements and techniques, data sources, standards, interpretation, and preparation of survey and planning reports. Opportunity for practical application of techniques.

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\* May be taken for graduate credit.

- R531 Design and Development of Park and Recreation Areas (2 cr.)  
P: R530 or permission of instructor. Park and recreation area layout, design, and guidelines for facility development. Landscape analysis, program applications, site inspections, and preparation of park and recreation area development plans.
- R532 Operation and Maintenance of Park and Recreation Facilities (3 cr.)  
Management, operation and maintenance of park and recreation areas and facilities.
- 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.
- R540 Outdoor Recreation (3 cr.)  
Survey of the dynamics of outdoor recreation in American life. Programs, trends, resources, elements of demand, administration, research, planning, economics, and interpretation. Intensive examination of selected public policy issues in outdoor recreation through small group seminars and individual study.
- R541 Camping Administration (3 cr.)  
Organization and administration of camps; program planning, selection and training of staff; camp site selection and development; health and safety.
- R542 Foundations of Outdoor Education (3 cr.)  
History, theory and philosophy of outdoor education. Examination of school and community programs for various age levels. Opportunity to observe and participate in outdoor education experiences.
- R543 Programming in Outdoor Education (2 cr.)  
Study of camping and outdoor education programs of schools and voluntary agencies. Primary emphasis on program content and method.
- R550 Natural Resource Management (2 cr.)  
Principles and practices of natural resource management applicable to parks and recreation. An opportunity for students to develop an understanding of and appreciation for man's dependence on his natural surroundings, and to recognize the critical role the natural environment plays in satisfying the leisure requirements of man.
- R551 Wildlife Management on Recreation Areas (2 cr.)  
Introduction to problems and methods of wildlife management on natural areas.
- R560 Recreation for the Ill and Disabled (3 cr.)  
Concepts and characteristics of the ill and disabled, role, function, and significance of recreation for people with limitations; history and nature of therapeutic recreation service.
- R561 Elements of Therapeutic Recreation Service (3 cr.)  
Concepts of recreation activities as a treatment and rehabilitation tool; nature of settings; assessment and evaluation of clients' leisure and recreation needs; design and administration of therapeutic recreation programs.
- R565 Recreation for Later Maturity (2 cr.)  
Investigation of psychological, sociological, and physical characteristics of aging populations; exploration of services for the aging; analysis of problems related to leisure and recreation.
- R580 Administration of College Unions (3 cr.)  
Organization and administration of the college union as well as examination of its role in higher education.
- R600 Psychological and Sociological Aspects of Leisure (3 cr.)  
Depth investigation of leisure as it relates to individual and group living in present and predicted communities. Seminar experience for post master's students. Prerequisite R500 or consent of instructor.
- R602 Current Issues in Recreation (cr. arr.)  
Seminar on current issues in parks and recreation. For advanced graduate students only.
- R640 Independent Study and Research (cr. arr.)  
Independent research conducted under guidance of graduate faculty member.
- R641 Readings in Recreation (cr. arr.)  
Guided readings for broadening information and understanding of the profession. Restricted to advanced masters and directors candidates.
- R642 Internships in Recreation and Parks (2-5 cr.)  
Off-campus professional field experience in superior agencies under qualified supervision. Offered only after completion of course work for master's degree.
- R643 Practicum in Recreation and Parks (cr. arr.)  
Practical field experience under supervision and seminar discussions.
- R667 Seminar in Recreation (cr. arr.)
- R700 Professional Recreation Education (3 cr.)  
Investigation of concerns which relate to professional preparation in parks and recreation. For doctoral students or permission of instructor.
- R740 Advanced Research in Recreation (cr. arr.)  
In-depth research by directorate or doctoral candidate.
- R741 Advanced Readings in Recreation (cr. arr.)  
Guided readings for broadening information and understanding of the profession.

## SAFETY EDUCATION

(See also Health Education)

- S155 **Driver Education (2 cr.)**  
Prepares students for state examinations. Classroom instruction and supervised practice driving, including traffic situations, rules of the road, highway courtesies, and formation of desirable attitudes.
- S350 **Content and Materials in Safety Education (2 cr.)**  
For secondary school teachers and principals. General safety education in the instructional program, program content for the elementary school, and accident causes and remedial action. Laboratory has projects on campus and in community.
- S351 **Leadership Development in the Shooting Sports (2 cr.)**  
Trains voluntary leaders in community programs in shooting sports. Students may qualify as NRA certified rifle, pistol, and shotgun instructors. Emphasis on firearms safety and the teaching of marksmanship.
- \*S355 **Traffic Safety Education for Business Majors (4 cr.)**  
Basic principles of motor transportation and traffic safety practices as applied to business and industry. Selection, screening, placement, and educational programs for motor transport personnel. Acquaints business majors with testing procedures and the role of motor fleet supervision.
- \*S356 **Traffic Safety Education for Teachers (4 cr.)**  
Materials and methods for high school classroom and practice driving instruction. Psychophysical limitations of drivers, driving procedures, car procurement, scheduling, public relations, maintenance, pedestrian protection, skill exercises, road training. Students teach beginners. Driver's license required.
- S457 **Industrial Safety Education (3 cr.)**  
Basic principles of accident prevention as applicable to business and industry. Class discussions, case study method, visitations to local industrial plants. Human engineering aspects of accident and loss prevention.
- ~~S550~~ **Organization of Safety Education (2 cr.)**  
~~For administrators, teachers, school personnel who organize school and community safety education programs. Objectives, policies, procedures, supervisory techniques; accident prevention techniques. Laboratory assignments.~~
- \*S555 **Organization and Administration of Traffic Safety Education (3 cr.)**  
For teachers and administrators of traffic safety education. Methods, organization, administrative techniques; development of habits, attitudes, knowledge, and skills; dual-control cars for beginners; students participate in traffic surveys.
- S557 **Public Health Accident Control (3 cr.)**  
P: A safety course and HPER H511. Designed with emphasis on epidemiology of accidents and accidents as a national problem; combination of such forces as the host, agent, and environment studied as contributing factors in accident causation, programs of voluntary and official community health and safety agencies analyzed to determine how they can effectively serve in conservation of human resources.
- S617 **Seminar in Safety Education (1 or 2 cr.)**
- S655 **Problems in Driver Education and Highway Safety (3 cr.)**  
Administrative problems in high school driver education and highway safety program; advanced driving skills, road testing, traffic surveys; evaluation of research studies, need for additional research, review of adult driver education needs.

## TECHNICAL COURSES

- T590 **Introduction to Research in Health, Physical Education, and Recreation (3 cr.)**  
Methods and techniques of research; potential and completed problems analyzed with view to selection of topics; standards for writing research papers.
- T591 **Interpretation of Data in Health, Physical Education, and Recreation (3 cr.)**  
Elementary and essential statistical and graphical techniques for analysis and interpretation of data; practice upon actual data.
- T592 **Statistical Techniques of Research in Health, Physical Education, and Recreation (3 cr.)**  
Theory of advanced statistical techniques; practical applications with actual data.
- T593 **Public Relations (3 cr.)**  
Principles of public relations, human relations, identification and analysis of publics, problem-solving, and techniques in communication media.
- T594 **Business Procedures for the Administrator of Health, Physical Education, and Recreation (3 cr.)**  
P: Administration Course (HPER) or permission of instructor. Techniques in budgeting, office management, auditing, management of funds, accounting, records and reports, purchasing, and other business procedures pertinent to administrators.

\* Students not proficient in driving should take S155 as a prerequisite.

- 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 (5 cr.)
- T691 Correlational Techniques (3 cr.)  
P: HPER T592. An introduction to linear regression and correlation, other measures of relationship, and multiple regression and correlation. Application of these techniques in measurement and research. Analysis of covariance.
- T693 Experimental Analysis and Design (3 cr.)  
P: T592 with a grade of B or better. Procedures and principles of experimental research; design, application of statistical techniques, analysis and interpretation of results, assumptions basic to techniques.
- T699 Director's Degree Project (3 cr.)  
Comprehensive study and written report of administrative or supervisory operation in which functions and problems are observed, analyzed, and evaluated.
- T790 Doctor's Thesis in Health, Physical Education, or Recreation (cr. arr.)

### PHYSICAL EDUCATION FOR WOMEN

- W100 Basic Instruction in Physical Education for Women (1 cr.)  
Activities in the Department of Physical Education for Women are elective. The following activities are offered on a semester basis: ballet, gymnastics, horsemanship, judo, modern dance, and swimming including diving, synchronized, Red Cross life saving and instructor's. Activities offered on a seasonal basis are: Archery, badminton, bait and fly casting, basketball, billiards, body dynamics, bowling, conditioning exercises, exercise to music, fencing, golf, hockey, lacrosse, recreational games, riflery, social dance, softball, square dance, tennis, track and field, volleyball, and water polo.
- W103 Modern Dance for Physical Education Majors (1 cr.)  
Principles of fundamental movements, terminology, movement techniques, interrelationship of modern dance and physical education.
- W121 Physical Education for Majors (1 cr.)  
Observation of strokes and strategies and practice in tennis. Golf history, terms, rules, etiquette, skills, and practice of these on the golf course. Principles of movement.
- W122 Team Sports (1 cr.)  
Fundamental skills and techniques of basketball, volleyball, softball, track and field. A prerequisite for W325.
- W124 Introductory Rhythmic Training (1 cr.)  
Aspects of musical structure and relation of these elements to movement. Includes factors of pulse beat, accent, tempo, rhythmic patterns, phrasing.
- W201 Advanced Modern Dance I (1 cr.)  
P: Intermediate modern dance. Advanced technique training with an introduction to varied dance styles.
- W202 Advanced Modern Dance II (1 cr.)  
P: W201. Performance and analysis of primitive, classical, modern, jazz, and ethnic styles.
- W211 Modern Dance Composition I (2 cr.)  
P: Intermediate modern dance. Introduction to basic elements of modern dance composition and tools from which to work.
- W212 Modern Dance Composition II (2 cr.)  
P: W211. Historical dance composition; primitive, pre-classical, classical, and early modern.
- W213 Rhythmic Form and Analysis (2 cr.)  
Practical coordination exercises showing relationship between music and movement. Introduction to elementary musical notation, musical terms, analysis of musical forms.
- W214 Modern Dance Workshop I-II-III-IV (1 cr. each semester)  
Collaboration of students and directors in choreographing dances for performance; open to any qualified student wishing to pursue dance as a creative art form.
- W222 Gymnastics, Tumbling, and Apparatus (2 cr.)  
Basic skills in stunts, tumbling, gymnastics, and apparatus, and procedures used in teaching these activities.
- W223 Dance in Elementary Education (1 cr.)  
Designed to help teachers in the elementary grades in presenting a well-rounded rhythmic program. Understanding of total dance program and skills involved.
- W224 Folk, Square, and Social Dance (1 cr.)  
Methods and materials of folk dance instruction in upper elementary grades and high school; special attention to terminology, fundamental skills, selection, presentation of dances.

- W301 Theory and Practice of Dance Technique I (1 cr.)  
P: W202, W212. Development of individual's dance technique through basic understanding of one's philosophy of dance.
- W302 Theory and Practice of Dance Technique II (1 cr.)  
P: W301. Theory of movement exploration evolving from experimental dance disciplines.
- W311 Dance and the Allied Arts I (3 cr.)  
Historical development of dance and the related arts; primitive through medieval.
- W312 Dance and the Allied Arts II (3 cr.)  
P: W311. Historical development of dance and the related arts; Renaissance through contemporary.
- W322 Individual Sports (1 cr.)  
Includes badminton, bowling, tennis, and golf.
- W323 Teaching of Individual Sports (1 cr.)  
Prepares undergraduate majors to teach badminton, bowling, tennis. Lectures and discussions: basic principles, teaching methods, selection and care of equipment, history, terminology, rules. Projects: Report on skill analysis of service class students, practice teaching of one service class, unit lesson plans for one sport.
- W324 Teaching of Modern Dance (1 cr.)  
P: W103. Creative teaching of movement for beginning level. Movement and rhythmic and space aspects of dance with opportunity to explore new ways of moving and of composing dances.
- W325 Teaching of Team Sports (1 cr.)  
P: activity courses in speedball, softball, basketball, and volleyball. Analysis of skills, coaching, and progressions for team sports.
- W326 Sports Officiating (1 cr. each semester)  
Techniques of officiating basketball, volleyball, softball, and field sports. Women's intramural games are used as laboratory periods.
- W328 Musical Resources for Dance (2 cr.)  
Musical selections of various moods and qualities for teaching and performing modern dance. Practical experiences in use of percussion instruments, rhythmical dictation, rhythmical score writing.
- W329 Dance Costuming (2 cr.)  
Design and construction of costumes for dance with special emphasis on line, material, and color.
- W400 Organization and Administration of Physical Education (2 cr.)  
Development and promotion of programs of physical education for girls in secondary schools and for elementary schools.
- W401 Dance Summary I (1 cr.)  
A systematic study of dance as a performing art and educational medium; a survey of its interrelationship to other art forms and its role in society.
- W402 Dance Summary II (1 cr.)  
Choreography of individual and group compositions; selecting appropriate accompaniment, designing costumes, sets and lights, staging, and presenting the finished dances.
- W411 Dance Production I (3 cr.)  
Aspects of technical theatre, lighting, costuming, make-up, and scene construction, as they are related to dance. Includes the procedures for pre-planning and organizing dance productions.
- W412 Dance Production II (3 cr.)  
A practical application of pre-planning, organizing, and developing all aspects of dance production.
- W416 Management of Extracurricular Activities (1 cr.)  
Intramurals, Girls' Athletic Association, and others.

### EDUCATION COURSES

- Education M358 The Teaching of Health and Safety (2 cr.)
- Education M456 Methods of Teaching Physical Education: For Men (3 cr.)
- Education M457 Methods of Teaching Physical Education: For Women (3 cr.)
- Education M458 Methods of Teaching Health and Safety (3 cr.)
- Education M480 Student Teaching in the High School (5 to 8 cr.)
- Education M485 Student Teaching in Recreation (8 cr.)

## RESERVE OFFICERS' TRAINING CORPS (ROTC)

### Department of Military Science (Army)

The Army ROTC is a voluntary program conducted by U.S. Army officers who are specially selected and approved by Indiana University for this duty. The curriculum is designed to provide the knowledge and to develop the ability and skills required of commissioned officers. A student may acquire a commission in the U.S. Army Reserve by completing this program. However, outstanding students are designated as Distinguished Military Graduates and are tendered Regular Army Commissions. All credit earned applies toward the total credit hours required for graduation. The Professor of Military Science is authorized to issue a I-D deferment to students participating in the ROTC program.

**Four-Year Program.** This program is divided into two phases—a Basic Course, conducted during the freshman and sophomore years, and an Advanced Course, taken during the junior and senior years. Advanced students are selected on the basis of their application, scholastic record, and demonstrated potential. Advanced Course students normally attend a six-week summer training camp between their junior and senior years. However, for appropriate reasons attendance at summer camp may be deferred until the end of the senior year.

**Two-Year Program.** This program extends the advantages of advanced ROTC training to students who did not take the Basic Course. As a substitute for the Basic Course, a student must attend a six-week summer training camp. Other qualifications for entering this program are the same as for entering the Advanced Course of the Four-Year Program. The Two-Year Program is open only to students entering their junior or subsequent years. Application must be made during the year preceding enrollment.

**Pay and Scholarships.** All students in the Advanced Course receive \$50 per month retainer pay, plus approximately \$400 and travel pay, while attending advanced summer camp training. Students in the Two-Year Program receive \$200, plus travel pay, for attending the basic summer camp. However, no academic credit toward graduation is awarded for this training.

A limited number of two-, three-, and four-year full scholarships are available to selected students in the Four-Year Program. Students awarded scholarships receive full tuition, books, fees, and \$50 per month during the period that the scholarship is in effect. Scholarship recipients are obligated to serve four years of active duty.

**Service Requirements.** Graduates of the Army Advanced ROTC Program incur a two-year active duty service obligation and four years in the U.S. Army Reserve. Entry to active duty may be deferred to obtain an advanced degree.

**Flight Training.** Flight instruction, conducted by civilian instructors at Kisters Field, Bloomington, is offered to students in the second year of the Advanced Course. To participate, the student must have an aptitude for flying and must meet required physical qualifications. He must also agree to participate in the Army Aviation Program, if selected, upon entering active service. Students who successfully complete this program may qualify for a private pilot's license. All costs incidental to the flight training program are provided by the U.S. Army.

**Graduate Students.** Graduate students are eligible to apply for the Army ROTC Advanced Course provided they meet entrance requirements.

#### Army ROTC Basic Courses—First Two Years

G101-G102, G201-G202 (4 cr.)

Develops students as officers. Includes national defense policy and structure; map reading; fundamentals of U.S. Army organization; basic leadership theory; and practical leadership training.

### Army ROTC Advanced Course—Last Two Years

G301-G302, G401-G402 (12 cr.)

Includes leadership theory; personnel management; principles and practical experience in military teaching; exercises in employment of military units, including command and staff procedures, logistical support, supply, administration, maintenance, and transportation; military law and justice; role of the U.S. in world affairs; customs of the service; and code of the Army officer.

### Department of Aerospace Studies (Air Force)

AFROTC is a voluntary program for qualified male and female students who desire to become eligible for a commission in the U.S. Air Force Reserves while pursuing a college degree.

Training is conducted by carefully selected, highly qualified U.S. Air Force officers who are on active duty.

**Four-Year Program.** This program is divided into two phases. The first two years, open to medically qualified freshmen and sophomores only, constitute the basic course (GMC), which introduces the concept of aerospace power and explains the role of the Air Force in the national defense effort. It also acquaints the student with professional opportunities in the Air Force and provides him an opportunity to qualify for selection into the second phase, which is the advanced course (POC). Students in the GMC can expect to spend two hours per week participating in classroom and other supervised activities. Entrance into the advanced course is on *selective* basis. During the second phase, selected students are given advanced leadership training plus four weeks of field training between their sophomore and junior years at designated Air Force bases. Upon successful completion of this program and graduation, the cadet will be commissioned as a second lieutenant in the United States Air Force Reserve. Students do not have to meet flight medical requirements to enroll in AFROTC, although it is desirable that they do so.

**Two-Year Program.** This program was created for college men and women who were unable to enroll in the Four-Year Program. It is open to those with at least two years of undergraduate or graduate study remaining. Applicants must pass a written examination, be medically qualified, be recommended by a board of Air Force officers, and successfully complete a six-week summer field training course prior to acceptance into the POC.

**Pay and Scholarships.** All students in the POC receive \$50 a month during the academic year (ten months). In addition, they receive approximately \$200 plus travel pay while attending the summer field training course.

AFROTC scholarships are available to qualified students at all levels in the Four-Year Program. Regardless of the school in which the cadet is studying, the scholarship covers full tuition, books, laboratory expenses, and incidental fees. Scholarship cadets are paid \$50 a month during the period that the scholarship is in effect.

**Flight Instruction Program (FIP).** Qualified senior cadets interested in becoming Air Force pilots participate in the FIP, which includes ground school and thirty-six and a half (36½) hours of flight training from a civilian contractor. Cadets completing the FIP may qualify for a private pilot's certificate. This program is offered at no expense to the cadet.

**Active Duty Commitment.** AFROTC graduates, except those pursuing aeronautical ratings, serve four years' active duty. Pilots and navigators serve five years' active duty from the date they receive their aeronautical rating. Entry on active duty may normally be deferred to obtain a graduate degree.

**Career Opportunities.** Air Force assignments cover an extremely broad spectrum. Pilots and navigators are needed in large numbers, as are scientists and engineers. There are also excellent opportunities for those with an aptitude for administration and management. In most instances assignments have a close correlation with the cadet's academic major.

**First-Year Air Force General Military Course**

- A101 The USAF Serves National Security I (1 cr.)  
A study of the doctrine, mission, and organization of the United States Air Force; U.S. strategic offensive and defensive forces; their mission, function and employment of nuclear weapons.
- A102 The USAF Serves National Security II (1 cr.)  
Aerospace defense; missile defense; U.S. general-purpose and aerospace forces; the mission, resources, and operation of tactical air forces, with special attention to limited war; review of Army, Navy, and Marine general-purpose forces.

**Second-Year Air Force General Military Course**

- A201 The USAF Functions As a Power Factor I (1 cr.)  
Defense organization; organization and functions of Department of Defense and role of the military in U.S. national policies; theories of general war; nature and content of limited war; Soviet strategies and policies.
- A202 The USAF Functions As a Power Factor II (1 cr.)  
Chinese strategies and policies; role of alliances in U.S. defense policies; the elements and processes in the making of defense policies.

**First-Year Air Force Professional Officer Course**

- A301 Growth and Development of Aerospace Power I (3 cr.)  
Air Force doctrine, organization, and concepts; development of air power in the U.S.; future development of manned aircraft; corps training.
- A302 Growth and Development of Aerospace Power II (3 cr.)  
Astronautics; space operations and associated programs and vehicle systems; future of aerospace power; corps training.

**Second-Year Air Force Professional Officer Course**

- A401 The Professional Officer I (3 cr.)  
Air Force Leadership—a study of military professionalism; leadership theories, human relations, discipline, and military justice; corps training.
- A402 Professional Officer Course II (3 cr.)  
Military Management—development of communicative skills; functions, concepts, and principles of planning, organizing, coordinating, directing, and controlling; preparation for active duty; corps training.

*in the history of the Department of Recreation*  
*Division, Recreation Department of Physical Education*

## Faculty of the School of Health, Physical Education, and Recreation, 1971-72

*Method, Theory, Assistant Professor Emeritus of Health and Safety Education*

### EMERITUS

- BOOKWALTER, KARL W., Professor Emeritus of Physical Education for Men  
EPPLEY, GARRETT G., Professor Emeritus of Recreation and Park Administration  
FISHER, GORDON R., Track Coach Emeritus, and Associate Professor Emeritus of Physical Education for Men  
FOX, JANE, Associate Professor Emeritus of Physical Education for Women  
HESTER, MRS. CLARA L., Professor Emeritus of Physical Education for Women  
MUNRO, EDNA F., Professor Emeritus of Physical Education for Women  
RINSCH, EMIL, Librarian Emeritus and Assistant Professor Emeritus in Education and Social Sciences  
SCHLAFER, GEORGE E., Assistant Professor Emeritus of Recreation  
WAKEFIELD, MARKHAM C., Associate Professor Emeritus of Physical Education for Men

### FACULTY

- ALDRICH, ANITA, Ed.D. (Pennsylvania State University, 1957), Chairman, and Professor of Physical Education for Women; Professor of Education  
ANDRES, JR., ERNEST H., M.S. in P.Ed. (Indiana University, 1952), Head Baseball Coach, and Assistant Professor of Physical Education for Men  
BAKER, CHARLES CECIL, A.M. in Ed. (Central Washington State College, 1961), Assistant Track Coach, and Instructor in Physical Education for Men  
BAKER, ROBERT E., B.S. (Ball State University, 1951), Assistant Freshman Football Coach, and Instructor in Physical Education for Men  
BARLOW, DAVID A., M.S. (Pennsylvania State University, 1970), Lecturer in Physical Education for Men  
BAUMGARTNER, THEODORE ALLEN, Ph.D. (University of Iowa, 1967), Associate Professor of Physical Education for Men  
BELISLE, JAMES J., P.E.D. (Indiana University, 1960), Assistant Dean of the School of Health, Physical Education, and Recreation, and Associate Professor of Physical Education for Men  
BELL, SAM, B.S. (University of Oregon, 1957), Head Track Coach, and Assistant Professor of Physical Education for Men  
BERG, JAMES OTTO, Ed.D. (University of Missouri, 1969), Assistant Professor of Physical Education for Men, and Director of Intramural Sports  
BILLINGSLEY, HOBART S., M.S. (University of Washington, 1953), Assistant Swimming Coach, and Associate Professor of Physical Education for Men  
BLISS, DAVID G., M.B.A. (Cornell University, 1967), Assistant Basketball Coach, and Instructor in Physical Education for Men  
BOWLUS, WARREN C., M.S. (University of Colorado, 1957), Lecturer in Physical Education for Men  
BRENNAN, WILLIAM T., H.S.D. (Indiana University, 1970), Associate Professor of Health and Safety  
BROGNEAUX, JOHN P., P.E.Dir. (Indiana University, 1948), Assistant Professor of Physical Education, and Assistant Professor of Education (School of Education)  
BROWN, HOWARD K., M.S. in P.Ed. (Indiana University, 1953), Assistant Football Coach, and Instructor in Physical Education for Men  
BROWN, JAMES R., M.S. (Northern Illinois University, 1964), Gymnastics Coach, and Assistant Professor of Physical Education for Men  
BRUCE, BEN F., JR., M.S. in Health and Safety (Indiana University, 1949), Associate Professor of Physical Education for Men  
BUCHER, CLUM C., M.S. in Ed. (Indiana University, 1933), Associate Dean of the University Division, and Assistant Professor of Physical Education for Men

*See Opal's copy*

- BURNS, DONALD J., B.S. (Indiana University, 1969), Lecturer in Physical Education for Men
- BURRUS, SANDRA K., M.S. (Southern Illinois University, 1962), Assistant Professor of Physical Education for Women
- CARLSON, REYNOLD E., Doctor of Humanics (Springfield College, 1967), Professor of Recreation
- CARLSON, RONALD P., P.E.D. (Indiana University, 1971), Assistant Professor of Physical Education for Men
- CHAPMAN, ROSE MARIE, M.S. (Eastern Michigan University, 1970), Lecturer in Physical Education for Women
- CHROUSER, DANIEL R., M.S. (Indiana University, 1968), Lecturer in Physical Education for Men
- CLIFFORD, JACQUELINE A., P.E.D. (Indiana University, 1967), Assistant Professor of Physical Education for Women
- COOPER, JOHN M., Ed.D. (University of Missouri, 1946), Associate Dean of the School of Health, Physical Education, and Recreation; Director of Graduate Studies in the School of Health, Physical Education, and Recreation, and Professor of Physical Education for Men
- COUNSILMAN, JAMES E., Ph.D. (University of Iowa, 1951), Swimming Coach, and Professor of Physical Education for Men
- COUSINS, GEORGE F., P.E.D. (Indiana University, 1951), Chairman, and Professor of Physical Education for Men
- CROWE, JAMES W., H.S.Dir. (Indiana University, 1970), Assistant Professor of Health and Safety Education
- CUMMINS, MARGARET ADALINE, M.S. (Smith College, 1968), Instructor in Physical Education for Women
- DAL SASSO, CHRIS C., P.E.Dir. (Indiana University, 1957), Assistant Administrator, Department of Athletics, and Instructor in Physical Education for Men
- DANE, C. WESLEY, H.S.Dir. (Indiana University, 1947), Assistant Professor of Health and Safety
- DAUGHERTY, JOHN B., Ph.D. (New York University, 1950), Professor of Physical Education for Men
- DAVIES, EVELYN A., Ed.D. (Teachers College, Columbia University, 1950), Professor of Physical Education for Women
- DEPPE, THEODORE R., Re.D. (Indiana University, 1953), Chairman of Recreation and Park Administration; Professor of Recreation; and Associate Director of Graduate Studies in the School of Health, Physical Education, and Recreation
- ENDWRIGHT, JOHN R., M.S. in P.Ed. (Indiana University, 1947), Dean of the School of Health, Physical Education, and Recreation; Professor of Physical Education for Men
- FAIRFIELD, HERBERT L., M.S. in Ed. (Southern Illinois University, 1960), Assistant Football Coach, and Instructor in Physical Education for Men
- FITCH, ROBERT E., P.E.D. (Indiana University, 1954), Manager of the Golf Course, and Assistant Professor of Physical Education for Men
- GALLAHUE, DAVID L., Ed.D. (Temple University, 1970), Assistant Professor of Physical Education
- GROTKE, LEANNE L., M.S. (Indiana University, 1966), Instructor in Physical Education for Women
- HAMM, GWENDOLYN ANN, B.S. (Indiana University, 1970), Lecturer in Physical Education for Women
- HARRELL, PAUL J., M.S. in Ed. (Indiana University, 1937), Coordinator of Athletics Facilities Planning, and Associate Professor of Physical Education for Men
- HEALION, THOMAS E., B.S. (Miami University, 1954), Instructor in Athletic Professional Training, and Head Athletic Trainer
- HICKS, ROBERT B., A.M. (George Peabody College for Teachers, 1954), Assistant Football Coach, and Instructor in Physical Education for Men
- HOPE, S. MARGARET, M.S. (Indiana University, 1957), Instructor in Physical Education for Women
- HULLS, JOHN C., M.A.T. (College of Wooster, 1970), Freshman Basketball Coach, and Instructor in Physical Education for Men

- JOHNSON, NORMA JEAN, Ph.D. (University of Iowa, 1968), Assistant Professor of Physical Education for Women
- KEIHN, DENNIS J., M.S. (Indiana University, 1969), Lecturer in Physical Education for Men
- KNIGHT, ROBERT M., B.S. (Ohio State University, 1962), Head Basketball Coach, and Assistant Professor in Physical Education for Men
- KRUGER, LOIS M., Ed.D. (Columbia University, Teachers College, 1962), Visiting Associate Professor of Physical Education for Women
- LANDIN, WILLIAM C., M.S. in P.Ed. (Indiana University, 1962), Tennis Coach, and Assistant Professor in Physical Education for Men
- LAWRENCE, ROBERT E., B.S. (Indiana University, 1965), Freshman Baseball Coach, and Instructor in Physical Education for Men
- LAWSON, RICHARD W., Re.D. (Indiana University, 1970), Associate Professor of Recreation
- LEYHE, NAOMI L., P.E.D. (Indiana University, 1955), Professor of Physical Education for Women
- LIEMOHN, WENDELL P., Ph.D. (University of Iowa, 1970), Visiting Assistant Professor of Physical Education
- LOFT, BERNARD I., H.S.D. (Indiana University, 1957), Director of the Center for Safety and Traffic Education, and Professor of Health and Safety
- LUCAS, JOHN M., B.M. (Indiana University, 1963), Instructor in Physical Education for Women
- LUDWIG, DONALD J., H.S.D. (Indiana University, 1953), Professor of Health and Safety
- MCAULEY, JANET E., M.S. (Wellesley College, 1950), Assistant Professor of Physical Education for Women
- MCDANIEL, CHARLES E., M.S. in Ed. (Indiana University, 1949), Head Wrestling Coach, Assistant Football Coach, and Instructor in Physical Education for Men
- MACLEAN, MRS. M. JANET, Re.D. (Indiana University, 1959), Professor of Recreation
- MAURO, HAROLD A., JR., M.S. (Indiana University, 1969), Instructor in Physical Education for Men, and Assistant Freshman Football Coach
- MEYER, MARTIN W., Ed.D. (New York University, 1955), Associate Professor of Recreation
- MINDHEIM, ARTHUR D., A.M. (University of Iowa, 1960), Assistant Professor of Physical Education for Men
- ~~MITCHELL, LOREN, M.S. (Indiana University, 1962), Assistant Professor of Health and Safety~~
- MOUROUZIS, NICHOLAS, M.S. (Ohio University, 1961), Assistant Football Coach, and Instructor in Physical Education for Men
- MYHRE, LOREN G., P.E.D. (Indiana University, 1965), Associate Professor of Physical Education for Men, and Associate Professor of Anatomy and Physiology
- NEWBERG, SAM, H.S.Dir. (Indiana University, 1952), Assistant Professor of Physical Education for Men
- ORWIG, J. W., B.S. (University of Michigan, 1930), Director of Athletics, and Professor of Physical Education for Men
- PETERSON, CAROL ANN, Ed.D. (Teacher's College, Columbia University, 1971), <sup>Assistant Professor</sup> Lecturer in Recreation
- PETERSON, JAMES A., M.S. (Indiana University, 1951), Associate Professor of Recreation, and Specialist in Parks and Recreation, Indiana-Purdue Universities
- PLANK, ERNEST V., B.S. (Miami University, 1950), Assistant Football Coach, and Instructor in Physical Education for Men
- PONT, JOHN, M.S. in Ed. (Miami University, 1956), Head Football Coach, and Professor of Athletic Professional Training
- RASH, J. KEOGH, H.S.D. (Indiana University, 1949), Chairman, and Professor of Health and Safety
- RIGGINS, RONALD D., M.S. (Indiana University, 1966), Instructor in Recreation and Park Administration, and Resident Director of Bradford Woods
- ROSS, JOHN M., M.S. (Indiana University, 1963), Assistant Professor of Recreation
- RYSER, OTTO E., P.E.D. (Indiana University, 1953), Professor of Physical Education for Men
- SHERWIN, HILDA A., M.Ed. (Woman's College of the University of North Carolina, 1953), Assistant Professor of Physical Education for Women

*(B.S. in Recreation, Indiana University, 1947)*

- SLATER-HAMMEL, ARTHUR T., Ph.D. (University of Iowa, 1947), Professor of Physical Education for Men
- SNYGG, FRAN, M.F.A. (New York University School of Arts, 1971), Lecturer in Physical Education for Women
- STAFFORD, MAX, M.S. (Indiana University, 1971), Part-Time Lecturer in Health and Safety Education
- STRONG, CLINTON H., Ph.D. (University of Iowa, 1961), Professor of Physical Education for Men
- SUMMERS, D. DEAN, P.E.D. (Indiana University, 1956), Associate Professor of Physical Education for Women
- TULLY, ROBERT W., Re.D. (Indiana University, 1960), Professor of Recreation
- ULRICH, CHARLES O., M.S. (Indiana University, 1966), Lecturer in Health and Safety Education
- VAN SCHOYCK, CARROLL W., A.M. in Ed. (Miami University, 1960), Assistant Football Coach, and Instructor in Physical Education for Men
- VOORHIS, WILLIAM ALAN, M.S. (Indiana University, 1967), Instructor in Physical Education for Men, and Assistant Football Coach
- WALTERS, TRENT, B.S. (Indiana University, 1966), Instructor in Physical Education for Men, and Head Freshman Football Coach
- WATSON, LOUIS C., M.S. in P.Ed. (Indiana University, 1952), Associate Professor of Physical Education for Men
- WILSON, BILL R., M.S. (Indiana University, 1957), Assistant Professor of Recreation
- YEAGLEY, JERAD L., M.Ed. (University of Pittsburgh, 1963), Assistant Professor of Physical Education for Men

*State University of*

**ALUMNI ASSOCIATION**  
**of the**  
**SCHOOL OF HEALTH, PHYSICAL EDUCATION,**  
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