

D.R.
c/f

DIVISION OF
ALLIED
HEALTH
SCIENCES



1966-67

INDIANA
UNIVERSITY
BULLETIN

INDIANA UNIVERSITY

Bulletins for each of the following academic divisions of the University may be obtained from the Office of Records and Admissions, Bryan Hall, Indiana University, Bloomington, Indiana 47405.

COLLEGE OF ARTS AND SCIENCES

DIVISION OF OPTOMETRY

DIVISION OF SOCIAL SERVICE

SCHOOL OF BUSINESS

SCHOOL OF DENTISTRY

SCHOOL OF EDUCATION*

DIVISION OF LIBRARY SCIENCE

GRADUATE SCHOOL

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

NORMAL COLLEGE OF THE AMERICAN GYMNASIIC UNION

SCHOOL OF LAW

SCHOOL OF MEDICINE

DIVISION OF ALLIED HEALTH SCIENCES

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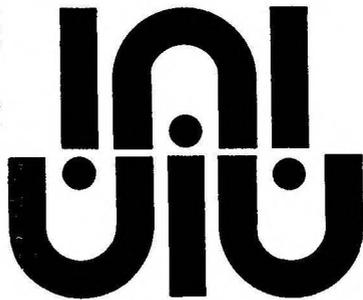
SCHOOL OF NURSING

DIVISION OF UNIVERSITY EXTENSION

SUMMER SESSIONS

* A separate *Bulletin* is issued for the Graduate Division of the School of Education.

BULLETIN
OF THE
DIVISION OF
ALLIED
HEALTH
SCIENCES
INDIANA
UNIVERSITY



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INDIANA UNIVERSITY BULLETIN

(OFFICIAL SERIES)

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Calendars

Bloomington Campus

1965-66

1966-67

First Semester

New student meetings— Junior Division.....	Sept. 13, M.....	Sept. 12, M
Counseling.....	Sept. 13, 14; M, T.....	Sept. 13-15, T, Th
Registration.....	Sept. 15, 16; W, Th.....	Sept. 16, 17; F, S
Classes begin.....	Sept. 17, F, 7:30 a.m.....	Sept. 19, M, 7:30 a.m.
Mid-term reports due.....	Nov. 12, F, 5 p.m.....	Nov. 4, F, 5 p.m.
Thanksgiving recess begins (after last class).....	Nov. 24, W.....	Nov. 22, T
Classes resume.....	Nov. 29, M, 7:30 a.m.....	Nov. 28, M, 7:30 a.m.
Christmas recess begins (after last class).....	Dec. 18, S.....	Dec. 20, T
Classes resume.....	Jan. 3, M, 7:30 a.m.....	Jan. 4, W, 7:30 a.m.
Classes end.....	Jan. 19, W.....	Jan. 17, T
Review Day.....	Jan. 20, Th.....	Jan. 18, W
Exams begin.....	Jan. 21, F, 7:45 a.m.....	Jan. 19, Th, 7:45 a.m.
Exams end.....	Jan. 28, F, 5:15 p.m.....	Jan. 26, Th, 5:15 p.m.

Second Semester

New student meetings.....	Feb. 1, T.....	Jan. 31, T
Counseling.....	Feb. 2, 3; W, Th.....	Feb. 1, 2; W, Th
Registration.....	Feb. 4, 5; F, S.....	Feb. 3, 4; F, S
Classes begin.....	Feb. 7, M, 7:30 a.m.....	Feb. 6, M, 7:30 a.m.
Mid-term reports due.....	Mar. 25, F, 5 p.m.....	Mar. 24, F, 5 p.m.
Spring recess begins (after last class).....	Mar. 26, S.....	Mar. 24, F
Classes resume.....	Apr. 4, M, 7:30 a.m.....	Apr. 3, M, 7:30 a.m.
Founders' Day*.....	May 4, W.....	May 3, W
Classes end.....	May 28, S, 12:15 p.m.....	May 20, S, 12:15 p.m.
Review Day.....	May 29, Sun.....	May 21, Sun
Exams begin.....	May 31, T, 7:45 a.m.....	May 22, M, 7:45 a.m.
Exams end.....	June 7, T, 5:15 p.m.....	May 29, M, 5:15 p.m.
Commencement.....	June 13, M, 10 a.m.....	June 5, M, 10 a.m.

Summer Sessions

<i>Intersession</i>		
Counseling and registration.....	June 8, W, 8 a.m.-12 noon.....	May 29, M
Classes begin.....	June 8, W, 1:30 p.m.....	May 31, W, 7:30 a.m.
Classes end.....	June 22, W.....	June 20, T

Regular Session

New student meetings and counseling.....	June 21, T.....	June 19, M
Registration.....	June 22, W.....	June 20, T
Classes begin.....	June 23, Th, 7:30 a.m.....	June 21, W, 7:30 a.m.
Monday classes meet.....	June 25, S.....	June 24, S
Independence Day holiday.....	July 4, M.....	July 3, 4; M, T
Tuesday classes meet.....	July 9, S.....	July 8, S
Wednesday classes meet.....	July 23, S.....	July 22, S
Thursday classes meet.....	Aug. 6, S.....	Aug. 5, S
Classes end.....	Aug. 11, Th.....	Aug. 10, Th

Postsession

Counseling.....	Aug. 10, W.....	Aug. 9, W
Registration.....	Aug. 11, Th.....	Aug. 10, Th
Classes begin.....	Aug. 12, F, 7:30 a.m.....	Aug. 11, F, 7:30 a.m.
Classes end.....	Aug. 27, S.....	Aug. 26, S

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

Calendars

Division of Allied Health Sciences

1965-66

Registration.....	
Classes begin.....	
Thanksgiving recess begins—5 p.m.....	
Classes resume—8 a.m.....	
Christmas recess begins—5 p.m.....	
Classes resume—8 a.m.....	
Classes end—5 p.m.....	
Exams begin.....	
Exams end.....	

<i>M. Rec.</i>	
F, Sept. 10	
W, Sept. 8	
T, Nov. 23	
M, Nov. 29	
W, Dec. 22	
M, Jan. 3	
T, Jan. 18	
W, Jan. 19*	
F, Jan. 21	

First Semester

<i>M. Tech.</i>	
F, Sept. 10	
M, Aug. 23	
W, Nov. 24	
M, Nov. 29	
W, Dec. 22	
M, Jan. 3	
S, Jan. 22	
Arr.	

<i>O.T.</i>	
F, Sept. 10	
M, Sept. 13	
T, Nov. 23	
M, Nov. 29	
W, Dec. 22	
M, Jan. 3	
T, Jan. 18	
W, Jan. 19	
F, Jan. 21	

<i>P.T.</i>	
F, Sept. 10	
M, Sept. 13	
T, Nov. 23	
M, Nov. 29	
W, Dec. 22	
M, Jan. 3	
T, Jan. 18	
W, Jan. 19	
F, Jan. 21	

<i>P.H. Group</i>	
M, Sept. 20	
M, Sept. 20	
W, 12 m, Nov. 24	
M, Nov. 29	
W, 12 m, Dec. 22	
M, Jan. 3	
F, Jan. 21	
M, Jan. 24	
F, Jan. 28	

<i>D. Hyg.</i>	
M, Sept. 20	
T, Sept. 21	
W, 12 m, Nov. 24	
M, Nov. 29	
W, 12 m, Dec. 22	
M, Jan. 3	
F, Jan. 21	
M, Jan. 24	
F, Jan. 28	

Registration.....	
Classes begin.....	
Spring recess begins—5 p.m.....	
Classes resume—8 a.m.....	
Founders Day†.....	
Classes end—5 p.m.....	
Exams begin.....	
Exams end.....	
Commencement 10 a.m.....	

M, W, Jan. 3 and 26	
Th, Apr. 7	
M, Apr. 18	
W, May 4	
Arr.*	
M, June 13	

Second Semester

M, Jan. 24	
W, Apr. 6	
M, Apr. 11	
W, May 4	
S, May 28	
Arr.	
M, June 13	

W, Jan. 26	
Th, Apr. 7	
M, Apr. 18	
W, May 4	
F, May 20	
M, May 23	
W, May 25	
M, June 13	

W, Jan. 26	
Th, Apr. 7	
M, Apr. 18	
W, May 4	
F, May 20	
M, May 23	
W, May 25	
M, June 13	

M, Jan. 31	
M, Jan. 31	
F, Apr. 8	
W, Apr. 13	
W, May 4	
Th, May 27	
M, May 30	
F, June 3	
M, June 13	

M, Feb. 7	
M, Feb. 7	
Th, Apr. 7	
T, Apr. 12	
W, May 4	
Th, May 26	
F, May 27	
F, June 3	
M, June 13	

Classes begin.....	
Classes end.....	
Exams begin.....	
Exams end.....	

Summer Session

M, May 30	
S, Aug. 20	
Arr.	

1966-67

Registration.....	
Classes begin.....	
Thanksgiving recess begins—5 p.m.....	
Classes resume—8 a.m.....	
Christmas recess begins—5 p.m.....	
Classes resume—8 a.m.....	
Classes end—5 p.m.....	
Exams begin.....	
Exams end.....	

<i>I.T.</i>	
F, S, Sept. 16-17	
M, Sept. 19	
T, Nov. 22	
M, Nov. 28	
Th, Dec. 22	
M, Jan. 2	
T, Jan. 17	
W, Jan. 18	
F, Jna. 20	

<i>M. Rec.</i>	
F, Sept. 9	
W, Sept. 7	
T, Nov. 22	
M, Nov. 28	
Th, Dec. 22	
M, Jan. 2	
T, Jan. 17	
W, Jan. 18 (A)	
F, Jan. 20	

First Semester

<i>M. Tech.</i>	
F, Sept. 9	
M, Aug. 15	
W, Nov. 23	
M, Nov. 28	
W, Dec. 21	
M, Jan. 2	
T, Jan. 17	
Arr.	

<i>O.T.</i>	
F, Sept. 9	
M, Sept. 12	
T, Nov. 22	
M, Nov. 28	
Th, Dec. 22	
M, Jan. 2	
T, Jan. 17	
W, Jan. 18	
F, Jan. 20	

<i>P.T.</i>	
F, Sept. 9	
M, Sept. 12	
T, Nov. 22	
M, Nov. 28	
Th, Dec. 22	
M, Jan. 2	
T, Jan. 17	
W, Jan. 18	
F, Jan. 20	

<i>P.H. Group</i>	
Th, Sept. 15	
Th, Sept. 15	
T, Nov. 22	
M, Nov. 28	
Th, Dec. 22	
M, Jan. 2	
T, Jan. 17	
W, Jan. 18	
F, Jan. 20	

<i>D. Hyg.</i>	
M, Sept. 19	
T, Sept. 20	
T, Nov. 22	
M, Nov. 28	
Th, Dec. 22	
M, Jan. 2	
T, Jan. 17	
W, Jan. 18	
F, Jan. 20	

Registration.....	
Classes begin.....	
Spring recess begins—5 p.m.....	
Classes resume—8 a.m.....	
Founders Day†.....	
Classes end—5 p.m.....	
Exams begin.....	
Exams end.....	
Commencement 10 a.m.....	

F, S, Feb. 3-4	
M, Feb. 6	
F, Mar. 24	
M, Apr. 3	
W, May 3	
S, May 20	
M, May 22	
M, May 29	
M, June 5	

Th, Feb. 2	
Th, Feb. 2 and 23	
S, Apr. 8	
M, Apr. 17	
W, May 3	
Arr.	
M, June 5	

Second Semester

M, Jan. 16	
Th, Mar. 3	
M, Mar. 27	
M, Apr. 17	
W, May 3	
Arr.	
M, June 5	

W, Jan. 25	
M, Jan. 23	
S, Apr. 8	
M, Apr. 17	
W, May 3	
F, May 19	
M, May 22	
Th, May 25	
M, June 5	

W, Jan. 25	
M, Jan. 23	
S, Apr. 8	
M, Apr. 17	
W, May 3	
F, May 19	
M, May 22	
Th, May 25	
M, June 5	

W, Jan. 25	
M, Jan. 23	
S, Apr. 8	
M, Apr. 17	
W, May 3	
F, May 19	
M, May 22	
Th, May 25	
M, June 5	

M, Feb. 6	
M, Feb. 6	
S, Apr. 8	
M, Apr. 17	
W, May 3	
F, May 19	
M, May 22	
Th, May 25	
M, June 5	

Registration.....	
Classes begin—8 a.m.....	
Classes end—5 p.m.....	

F, May 19	
M, June 5	
F, Aug. 25	

Summer Session

* Medical Records courses finals before Christmas recess. Core courses finals January 19-21, 1966. Core courses finals January 19-23, 1967.

† Qualified students are excused to attend the ceremonies.

Calendar

Medical Center Campus

1965-66

1966-67

First Semester

Registration: freshmen and sophomores; fall quarter begins, juniors and seniors.....	Sept. 7, T.....	Sept. 6, T
Classes begin, freshmen and sophomores.....	Sept. 10, F.....	Sept. 9, F
Thanksgiving recess begins, 5 p.m., freshmen and sophomores.....	Nov. 23, T.....	Nov. 22, T
Classes resume, 8 a.m., freshmen and sophomores.....	Nov. 29, M.....	Nov. 28, M
Winter quarter begins, 8 a.m., juniors and seniors.....	Dec. 1, W.....	Dec. 1, Th
Christmas recess begins, 5 p.m., freshmen and sophomores.....	Dec. 22, W.....	Dec. 22, Th
Classes resume, 8 a.m. freshmen and sophomores.....	Jan. 3, M.....	Jan. 3, T
Classes end, 5 p.m., freshmen and sophomores.....	Jan. 19, W.....	Jan. 12, T
Reading and exam period begins, freshmen and sophomores.....	Jan. 20, Th.....	Jan. 13, W
Reading and exam period ends, freshmen and sophomores.....	Jan. 25, T.....	Jan. 19, Th

Second Semester

Registration: freshmen and sophomores.....	Jan. 26, W.....	Jan. 20, F
Classes begin, 8 a.m., freshmen and sophomores.....	Jan. 26, W.....	Jan. 20, F
Spring quarter begins, 8 a.m., juniors and seniors.....	Mar. 7, M.....	Feb. 28, T
Good Friday.....	Apr. 8, F.....	Mar. 24, F
Spring recess begins, 5 p.m., freshmen and sophomores.....	Apr. 7, Th.....	Apr. 8, Sat, 12 m.
Spring recess ends, 8 a.m., freshmen and sophomores.....	Apr. 18, M.....	Apr. 17, M
Founders Day.....	May 4, W.....	May 3, W
Alumni Day.....	May 11, W.....	May 10, W
Freshman classes end, 5 p.m.....	May 26, Th.....	May 18, Th
Freshman reading and exam period begins.....	May 27, F.....	May 19, F
Freshman reading and exam period ends.....	June 2, Th.....	May 25, Th
Memorial Day.....	May 30, M.....	May 30, T
Sophomore classes end, 5 p.m.....	June 2, Th.....	May 24, W
Sophomore reading and exam period begins.....	June 3, F.....	May 25, Th
Sophomore reading and exam period ends.....	June 9, Th.....	June 1, Th
Spring quarter ends, juniors and seniors.....	June 9, Th.....	June 1, Th
Commencement, 10:00 a.m.....	June 13, M.....	June 2, F

1966

1967

Summer quarter begins, 8 a.m., junior and seniors.....	June 10, F.....	June 2, F
Independence Day.....	July 4, M.....	July 4, T
Summer quarter ends, juniors and seniors.....	Sept. 5, M.....	Sept. 4, M

Indiana University General Statement

Indiana University. Created in 1820 by an act of the general assembly, Indiana University has grown until it is now ranked the twelfth largest university in the nation in terms of full-time enrollment. The University is composed of ten academic schools and divisions, with a faculty exceeding 2,500, 60 per cent holding the doctoral degree. To meet the needs of approximately 41,000 full- and part-time students, the University offers 5,000 courses of instruction in more than 100 departments. Its graduate divisions offer 19 advanced degrees in 62 areas.

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

Campuses. The main campus of the University at Bloomington 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, while 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.

Regional campuses and centers, most of them in new buildings and expanded settings, are located in East Chicago, Fort Wayne, Gary, Indianapolis, Jeffersonville, Kokomo, Richmond, South Bend, and Vincennes.

Additional University facilities include Bradford Woods, Crooked Lake, the Geologic Field Station in Montana, the Monroe County Reservoir biology site, the Goethe Link Observatory, and Camp Brosius at Elkhart Lake, Wisconsin.

ADMISSION

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, School of Nursing, or Division of Allied Health Sciences should include two or more years each of mathematics, science, and foreign language.

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 January 5 for second semester, May 15 for summer sessions, and July 15 for September. An application fee of \$10 is required of each applicant who is new to the University. All questions concerning admission should be directed to the Office of Admissions, Bryan Hall, Indiana University, Bloomington, Indiana 47401.

Inter-Campus and Intra-University Transfers. Students who have been regularly admitted to Indiana University, who have attended at one campus or in one degree-granting division and who have maintained a 2.0 accumulative grade-point average may ordinarily transfer to another campus or another degree-granting division by complying with established procedures. For this purpose compliance with prescribed filing dates given above is essential.

Transfer students applying for admission to Indiana University, to a program within the Division of Allied Health Sciences, will NOT be admitted by the Admissions Office. The Admissions Office will forward to the Division of Allied Health Sciences Office the transfer credit report. The Division Office will, in turn, forward this report to the Program Director for his/her recommendation. This procedure requires extra time; therefore, applications should be filed early.

Schedule of Fees, 1966-67

	Rates per Credit Hour	
	In-State	Out-of-State
Junior Division	\$11	\$27
Arts and Sciences	11	27
Business (undergraduate)	11	27
Graduate School of Business	13	29
Dietetics	11	27
Education	11	27
Graduate	11	27
Health, Physical Education, and Recreation	11	27
Law: Bloomington Division	13	29
Law: Indianapolis Division	15	29
Music	11	27
Normal College, A.G.U.	11	27
Nursing	11	27
Allied Health Sciences*	11	27
Library Science	11	27
Social Service	11	27
Regional Campuses		
Undergraduate	15	18
Graduate	18	21
Summer Sessions		
Undergraduate	11	27
Graduate	11	11

(Graduate fees vary for Graduate School of Business, School of Law, Division of Optometry, and for certain workshops and field programs.)

	Rates per Year	
	In-State	Out-of-State
Medicine	\$655	\$1,255
Dentistry	500	1,000
Optometry	500	1,000
X-Ray Technology	140	300
Correspondence Study		
High School Work	\$18 per course	
Residents and Nonresidents	13 a credit hour	
Adult Education Courses	Fees as announced by each campus	

* A special supervisory fee of \$50 is charged in the Occupational and Physical Therapy Programs.

Fee Refund Schedule

First and Second Semester	
First Week (until class change day)	100%
Second Week	75%
Third Week	50%
Fourth Week	25%
Thereafter	0
Summer Session	
First Week (until class change day)	100%
Second Week	50%
Thereafter	0

Special Fees (in addition to basic fees)

Applied Music	\$35 a semester 17 for summer session
Student Teaching	50
Degree*	5
Special Examination	5
Credit by Examination	10

Other incidental special fees include laboratory, rentals, break-age, deposits, etc.

Basic Costs. Expenses for attending Indiana University at Bloomington for an academic year, including in-state semester fees, housing (room and board), and books and supplies total approximately \$1,280. Expenditures for clothing, travel, entertainment, and personal items are not included in this estimate.

HOUSING AT BLOOMINGTON

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. All freshman women are required to live in either University Halls of Residence or in officially approved private dormitories, except those exempted by the Dean of Students on the basis of employment or local residence with relatives. Other housing accommodations are available in private homes, approved by the University, and in fraternity and sorority houses.

Rates in the Halls of Residence range from \$655 to \$940 an academic year for single housing and from \$50 to \$155 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. The Housing Offices are located at 801 North Jordan, Indiana University, Bloomington, Indiana 47401.

ACADEMIC REGULATIONS

Degree Requirements. The student is held responsible for understanding all requirements for graduation and for completing them by the time he expects to graduate. Information concerning a specific school or division can be obtained by consulting the bulletin of that school.

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.

* Payable 30 days before graduation.

JUNIOR DIVISION

All students entering Indiana University directly from high school and all students transferring to the University during their freshman year enter the Junior Division. The chief purpose of the Junior 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 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.

SCHOLASTIC INFORMATION

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

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 on the date of his withdrawal. 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). 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 changes of the Incomplete to "W".

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. Illness is usually the only acceptable excuse for absence from class and must be officially confirmed. A student's excessive absence will be reported by his instructor to the Dean of Students.

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 Committee on Absence of the Office of the Dean of Students reviews excuses for absences from final examinations and notifies instructors of its decisions.

Semester Load. A student is not permitted to enroll in fewer than 12 or more than 17 credit hours except with special permission from the dean of his school. The individual school sets the policy concerning the required grade-point average before the student may receive permission to carry more than 17 hours. Only in very exceptional cases shall the total carried exceed 19 hours.

Probation and Dismissal. A student will be placed on academic probation for failure to meet or maintain certain scholarship requirements of the school in which he is enrolled, such as credit hours per semester, grade-point average, etc. The nonacademic activities of students on probation are curtailed. It is general policy of the Office of the Dean of Students to cancel the student's permit for operation of a motor vehicle in Monroe County. The various schools and divisions have established their individual policies on probation, its length and removal. At the discretion of the Committee on Admissions and Probation a student may be dismissed from the University for failure to achieve the required academic standards of the school or division in which he is enrolled. 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 with Honors. The University also recognizes high cumulative grade averages by awarding degrees with various designations of "Distinction," "High Distinction," and "Highest Distinction."

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, Room 205, Maxwell Hall, 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 Office lists openings for part-time jobs in halls of residence, campus offices, libraries, Bookstore, Indiana Memorial Union, and fraternity and sorority houses. Students seeking suitable employment should contact the Student Employment Office, Indiana University, Bloomington, Indiana 47401.

Libraries. Ranked eleventh in size among university libraries in America, the Indiana University Library system contains more than 4,500,000 items. Most of the books and periodicals have been selected by the faculties of the various departments to facilitate both instruction and research. Comprising the University library system are a main library, for graduate and faculty use; an undergraduate library; the Lilly Library, for special collections and rare books; the several libraries at the regional campuses; school libraries, such as Music, Medicine, Law, etc.; and collections at housing units in the Halls of Residence system. In addition, many departments have collections centered around their specific areas of interest.

Student Health Service. Available to all registered students, the health service provides physical examinations, outpatient service for evaluation and short-term therapy, and administration of the student group hospital insurance plan. The new Health Center Building is located at Tenth and Jordan and includes a 108-bed infirmary.

Clinical Services. Students have access to several clinics at the University. The Reading and Study Skills Clinic helps students to improve reading speed and comprehension. The Remedial Speech and Hearing Clinic provides therapy for students who have speech and hearing defects, while the Psychological Clinic and the Counseling Office of the Dean of Students Division 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 of the School of Business arranges interviews with recruiters from business and industry for students of all schools and divisions and for University alumni. It also publishes a list of positions open in business and industry. The Government Placement Office in Ballantine Hall helps students to 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 two branch stores, one in Gresham Hall of Foster Quadrangle, and one in Clark House of Daniel Read Hall.

STUDENT ACTIVITIES

Students are encouraged not only to attend but to take part in extracurricular programs and activities, including athletics, theatre presentations, 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, such as *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, and pop concerts with nationally known dance bands and top entertainers. Special interest groups such as Spelunkers, Sailing, and Rifle Clubs offer a variety of activity. Beechwood Heights, the University's 33-acre recreational area on Lake Lemon, provides facilities for swimming, sailing, picnicking, and outdoor games. Large state forest preserves and state 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 on the Auditorium and Celebrity Series. 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 in its summer seasons of the Brown County Playhouse and Showboat Majestic.

Social and Traditional Events. Homecoming, President's Ball, Little 500 Weekend, Military Ball, and Christmas Eve on Campus are among the traditional events on campus.

Athletic Events. 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 stadium and 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 opportunity for every student. The finest facilities for swimming, golf, tennis, volleyball, archery, and bowling are available.

Student Government. All 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.

Scholastic Honoraries. Indiana University has chapters of the freshman scholastic organizations Alpha Lambda Delta, for women, and Phi Eta Sigma, for men. Other selective honoraries, such as Phi Beta Kappa of the College of Arts and Sciences, Order of the Coif of the School of Law, and Phi Delta Kappa of the School of Education, are described in the specific school bulletins.

Recognition Honoraries. Mortar Board for senior women and Blue Key for junior and senior men are national activity honoraries on campus which recognize their members for scholarship, leadership, and service. Other campus recognition groups for men include Tomahawk, independent sophomores; Flame Club, independent sophomores or above; Skull and Crescent, organized sophomores; Falcon, organized juniors; and Sphinx, organized seniors. For women, groups are Tomahawk and Enomene, for sophomores, and Pleiades, for organized juniors and seniors.

Religious Organizations. All church denominations welcome students into their worshipping congregations, and many churches sponsor specialized 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 and beliefs.

Medical Center Campus

The Indiana University Medical Center consists of the Schools of Medicine, Dentistry, and Nursing, and the Division of Allied Health Sciences, the Robert W. Long Hospital, the James Whitcomb Riley Hospital for Children (including the Kiwanis Wing), the Rotary Building, the Clinical Building, the William H. Coleman Hospital for Women, the Union Building, the Medical Science Building, and the new Adult Hospital, which is now under construction. Located adjacent to the Medical Center are Marion County General Hospital, Veterans Hospital, and the LaRue D. Carter Memorial Hospital. Such a situation is ideal for study in all phases of the health sciences. Students are admitted to all of the University hospitals and clinics for training and observation.

Also located in Indianapolis are the University's Division of Social Service, the Indianapolis Division of the School of Law, and the Normal College of the American Gymnastic Union.

HOUSING

Official housing application for Indianapolis Medical Center campus housing may be obtained from Philip McQuillen, Director of Housing, Indiana University Medical Center, 440 North Winona Street, Indianapolis, Indiana 46202. A small photograph and a \$25 loss and breakage deposit must accompany the application. Space assignments are made on the basis of the date the deposit is received. The Housing Office also maintains a file of approved off-campus facilities which may be checked in person in this office.

Dormitories for unmarried students are located adjacent to, and directly connected with the Union Building. Rates are: double, \$42.50 per month; single, \$60 per month (single-rate facilities are limited and rarely available). Each floor includes a lounge, and at the top of the building is a roof lounge for parties and informal social meetings. Each room includes storage space, campus telephone, and air conditioning. Central bathrooms are available on each floor. The dormitory wing is accessible to the main cafeteria and lounge of the Union Building.

Winona Village (for men only) consists of temporary barrack-type units with 35 double rooms accommodating 70 men, located west of the Union Building. Rates are: double, \$30 per month; single, \$37.50 per month (if available).

Unfurnished apartments for married students include efficiency, one-bedroom, and two-bedroom accommodations. The rentals range from \$50 to \$100 per month. Furnished apartments include efficiencies at \$90 per month and one-bedroom apartments at \$105 per month.

STUDENT ACTIVITIES

The city of Indianapolis has much to offer the student. The nationally famous Indianapolis Symphony presents concerts throughout the winter season. Several civic theatre groups as well as frequent visits of touring troupes provide a widely varied program of plays. Both Indiana and Purdue Universities maintain regional campuses in Indianapolis. Butler University, Indiana Central College, and Marion College are all located in Indianapolis. Art galleries, libraries, and museums enrich the city. There are seven radio stations, three television studios, and many movie houses to entertain the Indianapolis resident.

The proximity of Bloomington also allows an evening's entertainment on the campus. A series of inviting programs of theatre, music, and lectures which the Medical Center student may attend, are scheduled on the Bloomington Campus. Indiana University basketball and football tickets are available at student prices and many Medical Center students plan weekends on the Bloomington Campus as part of their social calendar.

A variety of recreational activities is offered to students. Facilities are available for dances, teas, parties, movies, tennis, archery, ping pong, baseball, badminton, basketball, swimming, and bicycling.

Student Union Board. The Student Union Board is the central student organization whose objective is to provide cultural, social, and recreational activities for the student body. The organization is composed of two representatives from the eight school divisions of Indiana University in Indianapolis. These include the Schools of Medicine, Nursing, Dentistry, Law (Indianapolis Division), Divisions of Social Service and Allied Health Sciences, Normal College of American Gymnastic Union, and Indianapolis Downtown Campus. This council, representative of all the schools on the campus and the downtown regional campus, sponsors dances, movies, and mixers. Eight medical and dental fraternities add to the social scene, as do the activities of the various schools and classes.

Music. The campus chorus, Medical Center Choraliers, is open to all students on the Medical Center Campus. It provides music for school and civic occasions.

Religious Activity. The Medical Center chaplain's office is open for personal appointments at any time. A chaplain is available for students of each faith to provide spiritual leadership to individuals and to their religious groups.

Campus religion groups include: the Inter-Varsity Christian Fellowship, and the Newman Club, primarily for Catholic students.

STUDENT SERVICES

Union Building. This campus is one of the few Medical Centers in the country that has its own Union Building. The Union Building provides a variety of activities and services to students, faculty, and staff, and to visitors and guests of the University.

Eating facilities include a snack bar and Cafeteria. A barber and beauty shop also are located in the Union.

The bookstore carries all necessary textbooks and supplies for the Schools of Medicine, Dentistry, and Nursing, and for the Allied Health Science courses. Magazines, supplies, novelties, and toilet articles may also be purchased.

Library. The combined libraries of the Schools of Medicine and Nursing are located in the Medical Science Building. The library contains 65,000 volumes and subscribes to 1,252 foreign and domestic periodicals. Many of the journal files are complete and gaps are being filled through exchange of duplicate volumes with other medical libraries, by gifts and through direct purchase. Current issues of some 400 periodical titles received are always available in the periodical reading room. The library seats 170 persons, and ready access to reference materials is provided by 2,500 volumes of selected indices, encyclopedias, and dictionaries placed on open shelves in the main reading room. The library of the School of Dentistry is also available to Allied Health Sciences students.

Student Health Service. This service is available to students of the Schools of Medicine, Nursing, and Dentistry, the Division of Allied Health Sciences, the Normal College of the American Gymnastic Union, and the Division of Social Service, as well as to the staff and faculty of the University. It offers complete clinical and laboratory examinations, immunizations, dispensary or infirmary care for minor illnesses, and limited hospital care for major illnesses or surgical operations. Optional health insurance, which provides coverage for dependents and which extends coverage to the student when away from the Medical Center campus, is also available.

Financial Assistance. In addition to the available scholarships and loans through the Office of Financial Aids, Bloomington Campus, there are funds and awards, given in the senior year, by sororities and fraternities and civic organizations for certain programs. Information is available from the Division of Allied Health Sciences or from the Program Directors concerning such special scholarships.

Division of Allied Health Sciences

As a part of the School of Medicine, the Division is concerned with the preparation of personnel in the health-related areas on the undergraduate level. The Division was established in September, 1959, by action of the Trustees of Indiana University. In 1960, the Board of Trustees conferred upon the faculty of the School of Medicine the responsibility and authority to qualify, for the Bachelor of Science degree, those students successfully completing the prescribed curriculum in the following areas of study: Medical Records, Medical Technology, Occupational Therapy, Physical Therapy, Public Health Dental Hygiene, Public Health Education, and Public Health-Environmental Health. In 1964 the Public Health Administration Program was approved and in 1965 the Cytology degree program. The first two-year associate degree program in Inhalation Therapy was approved in 1965.

Accreditation. The Division of Allied Health Sciences shares with the other schools of the University the accreditation accorded Indiana University as a member of the North Central Association of Colleges and Secondary Schools.

The programs in Medical Records, Medical Technology, Occupational Therapy, and Physical Therapy are, in addition, fully approved by the Council on Medical Education of the American Medical Association.

As soon as a student wishes to select and enter an Allied Health Sciences program he should write the Division Director. This letter should explain how he became interested in and what his purpose is in entering the program. His/her special skills, interests, hobbies, and purposes should be included. Full explanation of any handicaps should also be included. This can be done at matriculation from one of the regional campuses or on certification out of the Junior Division. The minimum requirements for admission by certification include 26 credit hours with a minimum cumulative average of C. At least one personal interview is required. Ordinarily the program director and faculty serve as counselors and there are semester consultations. Special arrangements concerning personal interviews are possible for out-of-state applicants. Applications for entry into one of the programs are ordinarily filled out at the personal interview, but may be obtained from the Bloomington Office, Room 202, Myers Hall, the Indianapolis Office, Room 162, Medical Science Building or from the Program Directors.

In the Division of Allied Health Sciences the program directors comprise the probation committee (see page 9), the admissions committee (see pages 5, 15), and recommend the awarding of degrees, certificates, and honors. The Director of the Division acts as Dean of the Division.

CURRICULUM

The curriculum pattern of the Division of Allied Health Sciences calls for a year in the Junior Division, and, in some programs, one or two additional years of work. The last one or two years, depending on the program, consists of preprofessional courses and/or clinical field training, supervised by the program directors at the Medical Center and/or affiliated areas outside Indianapolis.

Those departments requiring field training are: Medical Records, Occupational Therapy, Physical Therapy, Public Health Education, Public Health-Environmental Health, and Public Health Administration.

Core Curriculum. The core curriculum, established for all students entering a program in the Division of Allied Health Sciences includes: English Composition*,

* Every student must take English Composition each semester until he has completed the requirement. Bloomington students should pass the English Proficiency examination at the earliest opportunity.

four credit hours; Social Sciences, six-credit-hours sequence; Literature, Philosophy, and the Arts, six-credit-hours sequence; Chemistry, five credit hours; and Zoology (not required for Dental Hygiene), five credit hours.

The five- and six-hour-credit sequences may be selected from:

SOCIAL SCIENCES: Anthropology: A103, A104; A303, A304. Economics: E201, E202; E300 (5 hours, one semester). Geography: G201, G313; G105, G106 (5 hours, 1-2 semesters). Government: G101, G102; G103, G104; G213, G214. History: H103, H104; H105, H106; C381-C382-C383; H209-H210, H471-H472. Sociology: S161, S162 or S163.

LITERATURE, PHILOSOPHY, AND THE ARTS: The Arts: Comparative Literature C225; Fine Arts H100; Music M174; Speech S121 or S240 (any three). Classics: C250, C260. Comparative Religion: C153, C154. English: L101, L102. Fine Arts: H223, H224. Philosophy: Six hours from the total departmental offering including at least one of P100, P240, P250, P301, P302 or P350. Music: M201, M202. Speech and Theatre: S247, S248.

For complete course listings for the Social Sciences and Literature, Philosophy, and Arts sequences, see courses on pages 35-37.

Preprofessional Requirements. In addition to the core curriculum, certain courses are required to complete the preprofessional requirements (see specific area of study in the program section).

ADMISSION AND GRADUATION

Application to the Medical Center Campus. Selection of those to be admitted to the Medical Center in Indianapolis will begin on or about May 1 of each year from the applicants who have filed, or re-filed for admission prior to this date. Applications filed after May 1 will be processed as received, and selections will be made as long as vacancies exist or occur in the class to be admitted for the following academic year. Applications may be received and acted upon prior to the completion of all preprofessional requirements if the transcript of work completed at the time shows the reasonable probability that all requirements can be satisfactorily completed prior to the date of the opening classes.

All completed applications are to be submitted by the applicant to the Office of the Division of Allied Health Sciences, Indiana University Medical Center, Indianapolis, Indiana 46207. The Division Office will forward the application to the Program Director for his/her recommendation.

Admission. Before a student may request admission to the Medical Center Campus to continue his studies within the Division of Allied Health Sciences, he must present a minimum cumulative average of C, and the number of credit hours, including the necessary prerequisite courses, as follows: Inhalation Therapy, 29; Medical Records, Medical Technology, Public Health Dental Hygiene, Public Health Administration, Public Health Education, and Public Health-Environmental Health, 90; Occupational Therapy and Physical Therapy, 60. There is no collegiate prerequisite for the X-Ray Technology Program.

As a general rule, and in most programs, credit is not given for physical education or military; however, physical education courses are counted in figuring accumulated grade averages. Occupational Therapy and Physical Therapy will not give credit for anatomy and physiology.

Physical Examination. A physical examination and record of immunizations shall be furnished by the applicant's own physician. An immunization blank will be sent automatically upon admission to the Medical Center Campus. The physical examination may follow the physician's own desire but should particularly list visual, auditory, or orthopedic handicaps. A statement relative to emotional stability is important.

ACADEMIC INFORMATION

Grade Code. The letter grades used by the Medical Center Campus are the same as for the Bloomington Campus. All rulings concerning I, incomplete; W, withdrawn; and WF, failing or unauthorized withdrawal, can be found in an earlier section under Bloomington Campus Scholarship Information.

Grade Reports. Grade reports are mailed to students and their parents as soon as possible after the end of a semester.

Probation. Students are placed on probation for the semester succeeding the one in which they fail to earn a C average. Students are removed from probation at the end of the semester in which their cumulative average is C (2.0).

Probation may also be assigned to students who fail to meet satisfactory standards of professional behavior. Unsatisfactory standards are represented by such behavior as: absence without leave, undue carelessness or negligence in studies or practice, inattention to the needs of patients, and falsification of records or reports. Students and parents are notified of probationary status.

Separation. A student is automatically separated from the Division when he fails to earn a C average in each of two semesters or when his cumulative average is below C.

Readmission. The program directors act as a committee to consider petitions for readmission from students who have been separated. A student separated for the first time may petition the Committee immediately for readmission. Readmission may be granted if warranted by exceptional circumstances. A student separated for the second time may not be admitted for the next semester and may not petition for readmission until eight weeks after the beginning of the next regular semester. Once readmitted, a student remains on probation as long as his cumulative average is below C.

Requirements for Graduation. The Bachelor of Science degree will be conferred by the Indiana University School of Medicine upon persons who have complied with the following requirements: 1) the satisfactory completion of the Core Curriculum of the Division of Allied Health Sciences of the School of Medicine, 2) the completion of a minimum of 120 semester hours of academic work including the specific professional requirements for the program pursued, 3) a minimum cumulative average of C in academic work, and 4) the last 30 semester hours of University work taken at a University campus.

Degrees are granted in June and September. Commencement is held only in June. Candidates for degrees in September may participate in the June Commencement.

Programs and Courses, Division of Allied Health Sciences

The letters preceding the number of each of the courses in the Division of Allied Health Sciences indicate the program. The letters used and their meanings are as follows:

- AH A—Cytotechnology
- AH B—Public Health Administration
- AH C—Medical Technology
- AH D—Public Health Dental Hygiene
- AH E—Public Health Education
- AH F—Inhalation Therapy
- AH H—Public Health General Course
- AH M—Medical Records
- AH P—Physical Therapy
- AH R—X-Ray Technology
- AH S—Public Health-Environmental Health
- AH T—Occupational Therapy
- AH W—Coordinated courses primarily for Occupational Therapy and Physical Therapy students

Required courses are listed for each program (see course listings pages 18-36). The abbreviation "P" in the course description refers to course prerequisites.

For additional information on these programs, write to: Program Director, (name of field or area of your interest), Division of Allied Health Sciences, Indiana University Medical Center, Indianapolis, Indiana 46207.

CYTOTECHNOLOGY PROGRAM

Professor Vellios (Director); Assistant Professor Buehl; Lecturer Day

Courses are chosen so that a minimum of 105 academic credit hours (exclusive of Physical Education and/or Military) is met before students may enter the final year at Indianapolis Medical Center. Near the end of the third year the student's accomplishments are reviewed and an evaluation is made of his probable success as a Cytotechnologist. Only students employed and recommended by a pathologist may be accepted for the six month's training. Upon successful completion of the program a B.S. degree is conferred by the Indiana University School of Medicine. There is no guarantee of acceptance and students should be prepared to elect an alternate program in the College of Arts and Sciences.

<i>First Semester</i>	First Year	<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2
Chemistry C101	5	Chemistry C102	5
Foreign Language	5	Foreign Language	5
Social Science Sequence	3	Social Science Sequence	3
Physical Education W100	1	Physical Education W100	1
	16		16

Second Year			
Zoology Z103	5	Zoology Z215*	5
Foreign Language	3	Foreign Language	3
Literature, Philosophy, Arts Sequence	3	Literature, Philosophy, Arts Sequence	3
Classics C209	2	Electives	4
Electives	2		15
	15		

* Recommended elective. Substitution may be made only with permission of director.

Third Year

Anatomy A210 (human anatomy)	5	Anatomy B310*	3
Foreign Language	2	Bacteriology B350, B355*	5
Bacteriology B250, B255*	5	Physiology P204	5
Electives	3	Electives	2
	<u>15</u>		<u>15</u>

Fourth Year

(Bloomington and Medical Center Campuses)

<i>First Semester (Bloomington Campus)</i>		<i>Second Semester (Medical Center Campus)</i>	
Anatomy A464 (Histology)	5	General Medical Cytology AH A402	3
Electives	10	Gynecologic Cytology, Non-Malignant	
	<u>15</u>	Conditions AH A412	3
		Gynecologic Cytology, Malignant	
		Conditions AH A422	3
		Cytology of Sputum and Bronchial	
		Secretions AH A432	3
		Cytology of Body Fluids AH A442	2
		Cytology of Gastric Secretions, Urine, Spinal	
		Fluid and Other Secretions AH A452	2
		Technics in Medical Cytology AH A462	2
			<u>18</u>

The final six months of academic training in the Cytotechnology fourth-year program begins in the second semester on the Indiana University Medical Center Campus within the Department of Surgical Pathology. This includes lectures, demonstrations, laboratory periods, and conferences. A total of 18 credit hours is earned in this period (see list of courses below). Students may enter this program by selection only.

- AH A402 General Medical Cytology (3 cr.) Vellios, Staff
Basic features of cellular morphology, cellular physiology and cytogenetics related to medical cytology; cancer cells presented through lecture, laboratory study, demonstrations.
- AH A412 Gynecologic Cytology, Non-Malignant Conditions (3 cr.) Vellios, Staff
Cell types encountered in normal individuals; cyclic variations; changes in hormonal dysfunction, inflammatory changes.
- AH A422 Gynecologic Cytology, Malignant Conditions (3 cr.) Vellios, Staff
Study of cancer cells of different types and arising in several sites. Course enables student to recognize source and type of lesion from appearance of exfoliated cells.
- AH A432 Cytology of Sputum and Bronchial Secretions (3 cr.) Vellios, Staff
Systematic study of normal, nonmalignant and malignant cells in lower respiratory system.
- AH A442 Cytology of Body Fluids (2 cr.)
Study of cells found in effusions associated with nonmalignant and malignant diseases.
- AH A452 Cytology of Gastric Secretions, Urine, Spinal Fluid, and Other Secretions (2 cr.) Vellios
Review of cells, malignant and nonmalignant, encountered in exfoliates from these sites.
- AH A462 Technics in Medical Cytology (2 cr.) Day
Fixation and staining procedures, preparation of smears, and cell blocks from fluids and other exfoliates; use of millipore filter technic and fluorescence microscopy.

A second six months of informal training in a cytology laboratory under the supervision of a pathologist is necessary to meet the requirement of the Registry of Medical Technologists for certification in Exfoliative Cytology. This portion of the training does not usually offer University credit. For University credit, if required, see course listed below.

AH A465 Certification Internships (1-6 cr.)

Following supervised internship and successfully passing the national certifying examination, a final 1-6 credit hours may be earned if desired through travel and periodic conferences at the Medical Center.

* Recommended elective. Substitution may be made only with permission of director.

INHALATION THERAPY

Professor Stoelting (Director); Associate Professor Ross; Assistant Professors Gunn, Ridley; Lecturer Freeman (Co-director), and guest lecturers*

The graduate of this program will be qualified to administer oxygen and/or other gases and aerosols, using various techniques, resuscitate, and maintain and clean equipment used in inhalation therapy. He will have the knowledge pertaining to the administration and organization of such a department and its function as a part of the patient-care team, and an understanding of the physiology and pathology involved in various disease processes, therefore enabling him to know what he should observe during the period the patient is receiving any type of inhalation therapy.

Graduates of this program are qualified to take the examination given by the American Registry of Inhalation Therapists and upon passing to become a Registered Inhalation Therapist (A.R.I.T.).

First Year

<i>First Semester</i>		<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2
Chemistry C100	5	Zoology Z103	5
Literature L101†	3	Literature L102†	3
Physical Education W100	1	Physical Education W100	1
Social Sciences Sequence	3	Psychology P101	3
	—	Social Sciences Sequence	3
	14		—
			17

Summer Session

(Medical Center Campus—8 weeks)

- AH F201† Inhalation Therapy I (8 cr.) (88 clock hours of lecture; 232 of Clinical Education application).
- AH F202† Clinical Education (232 clock hours).

Second Year

<i>First Semester (Bloomington)</i>		<i>Second Semester (Medical Center Campus)</i>	
Anatomy A210	5	Hospital Organization and Management I	
Physiology P204	3	M321	2
Physics P100	5	Medical Terminology AH M330	2
Microbiology B200	3	Clinical Lecture I AH W374	3
	—	Clinical Lecture II AH W471	3
	16	Clinical Lecture III AH W472	2
		Clinical Education II AH F202	8
			—
			20

Inhalation Therapy courses in the 200 series in Indianapolis are open only to students enrolled in the Inhalation Therapy Program.

- AH F201 Inhalation Therapy I (8 cr.) (232 clock hrs.) Freeman
Lecture and demonstrations in various procedures and techniques; objectives of Inhalation Therapy. Organization and function of an Inhalation Therapy Department, care of equipment, ethics, and experience in patient treatment in which Inhalation Therapy techniques are applied.
- AH F202 Clinical Education I (8 cr.) (454 clock hrs.) Freeman
Advanced experience in patient treatment supervised by Registered Inhalation Therapist in facilities affiliated with educational program.

* Guest Lecturers—Professors Battersby, Behnke, King, Lurie, Segar, Shumaker; Associate Professors Bondurant, Miller, Petry; Assistant Professors Daly, Defalque, Mandelbaum, Manfredi, Matthews, Roesch, Stetson, Waldhausen; Instructors Beagle, Krumholz.

† Elective course, Literature, Philosophy, and Arts group.

MEDICAL RECORDS

Assistant Professors Gunn (Director), Ridley; Lecturers Donlan, Haymond, Hill, McCartt, Nolan, Sutherland

The medical record administrator, as director of the medical record department, is responsible for developing and maintaining a system of medical records which will promote the best medical care of the patient, provide training material for interns and residents, and serve as a source of information for medical research and clinical evaluation. As director he/she is also called upon to assist the hospital staff with many medical administrative and medicolegal problems.

In both the class laboratory and Medical Record Department the student learns to analyze medical records, compile monthly and yearly statistical data, answer correspondence and hospital insurance forms, and keep an up-to-date index of diseases and operations for use by physicians and research specialists.

After graduation the student is eligible to take the registration examination of the American Association of Medical Record Librarians which certifies him or her as a Registered Record Librarian (R.R.L.).

<i>First Semester</i>		First Year	<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2	
Chemistry C100	5	Zoology Z103	5	
Social Sciences Sequence	3	Social Sciences Sequence	3	
Literature, Philosophy, and Arts Sequence ...	3	Literature, Philosophy, Arts Sequence	3	
Physical Education W100	1	Physical Education W100	1	
Speech S121	2	Classics C209	2	
	16		16	

Students with less than three years high school mathematics should check with their counselor to determine if they may need to substitute a mathematics course.

Second Year			
Psychology P101	3	Psychology P102	3
Foreign Language	5	Foreign Language	5
Office Management C300	2	Office Management C403	3
Economics E201*	3	Economics E202*	3
Philosophy P100*	3	Philosophy P210*	3
	16		17

Third Year			
Office Systems and Control C404	3	Physiology P204	5
Anatomy A210	5	Data Processing W305	2
Principles of Management and Adm. W300 ...	3	Personnel Management J340	3
Electives†	3-5	Electives†	4-5
	14-16		14-15

<i>First Semester</i>		Fourth Year		<i>Second Semester</i>	
		(Medical Center Campus)			
Hospital Organization and Management I AH M321	2	Hospital Organization and Management II AH M322	2		
Statistics AH H304	2	Clinical Lectures II AH W472	2		
Medical Record Science I AH M411	5	Pathology C477	2		
Directed Practice Experience I AH M441 ...	3	Medical Record Science II AH M412	5		
Medical Terminology AH M330	2	Directed Practice Experience II AH M442 ...	6		
Clinical Lectures AH W374	3		17		
	17				

* Recommended elective. Substitution may be made only with permission of director.

† Recommended electives include: Psychology P327, Psychology of Motivation (3); Philosophy P250, Logic (3); Education R523, Utilization of Audio-Visual Materials (3); Business F260, Personal Finance (3); B413, Methods of Employee Training (3); Comparative Religion C153-154, Introduction to World Religions I-II (3-3); and additional courses in language of choice.

- AH M330 Medical Terminology (2 cr.)** Gunn
 Terms related to all areas of medical science, hospital service, and paramedical specialties.
- AH M321-322 Hospital Organization and Management I-II (2-2 cr.)** Ridley
 Orientation to hospital departments; hospital organization; inter- and intra-relationships of hospital and community agencies.
- AH M411-412 Medical Record Science I-II (5-5 cr.)** Gunn, Staff
 History of medical records, report preparation, quantitative analysis, coding and indexing procedures, research techniques, medical statistics, ethics, methods of securing and preserving medical records, principles and practices for administration of medical record departments, legal aspects and human relations. Second semester includes seminar on problems in medical record departments.
- AH M441-442 Directed Practice Experience and Affiliation Experience I-II (3-6 cr.)** Gunn, Staff
 Supervised learning experience to develop insight, understanding, and skill in medical record procedures; problems of medical record personnel; work with other professional and nonprofessional personnel. Final month spent in an affiliation in the medical record department of another hospital, in or out of Indianapolis.

MEDICAL TECHNOLOGY

Professor Vellios; Associate Professors Fisch, Minton, Summers; Assistant Professor Buehl (Director); Instructors Hocker, Jung, Lehman, Reese; Lecturers Boylan, Chandler, Compton, Cushman, Dritsas, Gootee, Gotshall, Harvey, Hirsbrunner, Lavis, Mestrich, Munden, Piper, Shafer, Shanks, Vladoui, Weisell, Yosowitz, Young, Zunk

Graduates of this program are employed chiefly in larger hospitals, although some work in smaller hospitals, clinics, physicians' offices, or on research teams. Opportunity for specialization, advancement, and study for advanced degrees is available. Prospective candidates should be science oriented, conscientious, thoroughly reliable and honest. Patient contact is subservient to laboratory skill. Ability to supervise and teach is desirable.

The practical work of this curriculum satisfies the requirements of the National Board of Registry of Medical Technologists of the American Society of Clinical Pathologists. After completion of degree requirements, students take an examination given by the Registry to qualify for the certificate issued by the Registry as a Registered Medical Technologist, M.T. (ASCP).

Each student is held responsible for understanding all requirements in the Medical Technology Program and for completing them by June 15 before admittance to the Medical Center Campus.

First Year

English Composition W131	2	English Composition W132	2
Physical Education W100	1	Physical Education W100	1
Zoology Z103	5	Chemistry C105†	5
Anthropology A103*	3	Anthropology A103*	3
French, German, or Russian 101‡	5	French, German, or Russian 102‡	5
<hr style="width: 100%;"/>	16	<hr style="width: 100%;"/>	16

Second Year

Chemistry C106	5	Chemistry C341	5
Literature, Philosophy, Arts Sequence	3	Literature, Philosophy, Arts Sequence	3
Anatomy A210§	5	Physiology P204§	5
Classics C209	2	Electives	2
<hr style="width: 100%;"/>	15	<hr style="width: 100%;"/>	15

* Another sequence in social sciences may be substituted, with counselor's consent (see pages 5,15).

† P: two years of high school algebra; or 1½ years high school algebra and M117; or 1 year of high school algebra and M115.

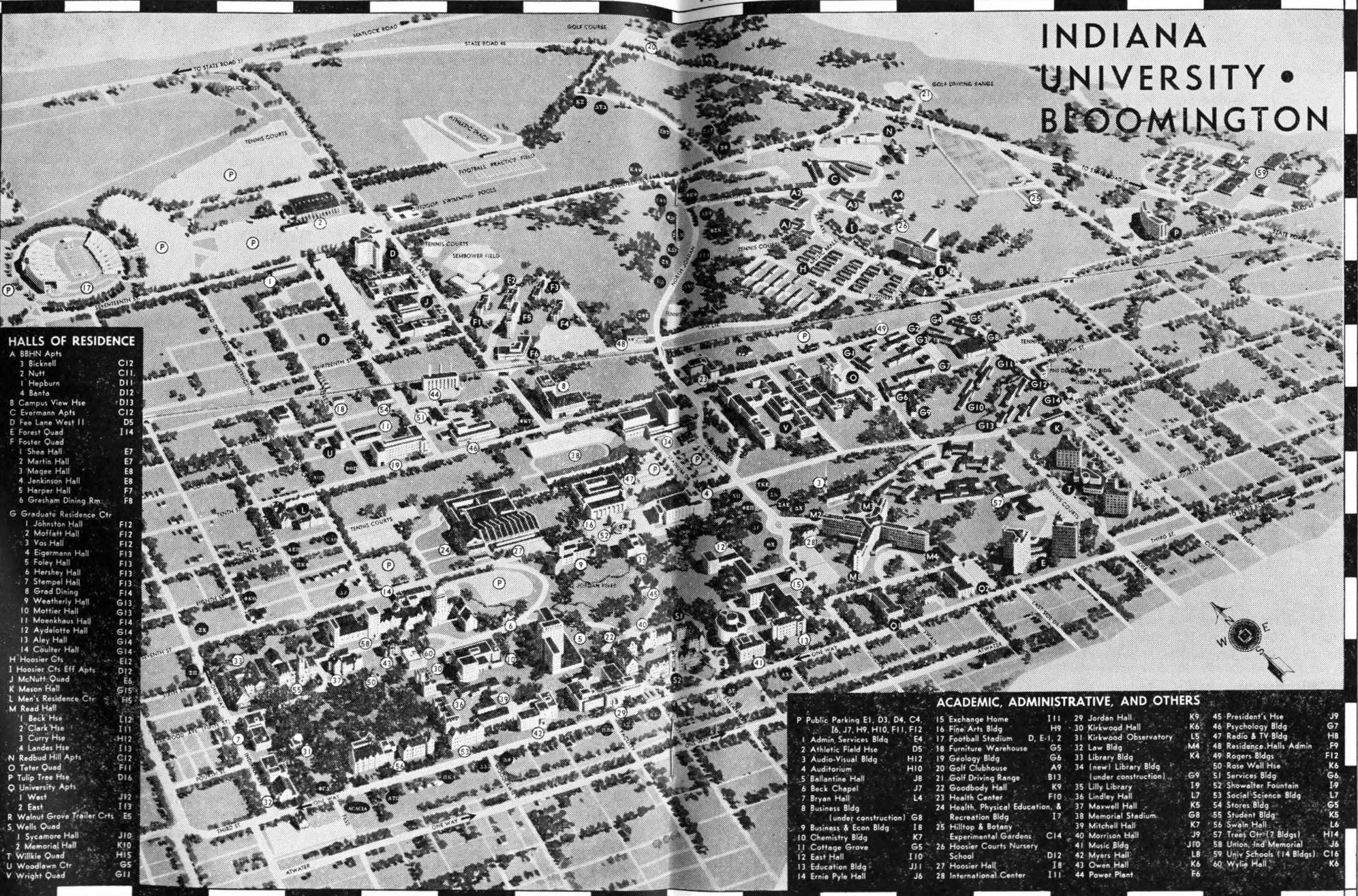
‡ Recommended elective. Substitution may be made only with permission of director.

§ Recommended for good students are Anatomy A310, Anatomy A464; Zoology Z215, Zoology Z364; Bacteriology B430. Those wishing to take the latter two should complete B250; B255; and B350; B355 as early as possible since they are prerequisites to the advanced courses listed above. A second year of foreign language is suggested as a junior-year elective.

INDIANA UNIVERSITY • BLOOMINGTON

HALLS OF RESIDENCE

A	BBHN Apts	C12
	3 Bicknell	C11
	2 Nutt	D11
	1 Hepburn	D12
	4 Banta	D13
B	Campus View Hse	D12
	C Evermann Apts	D5
	D Fee Lane West II	I14
	E Forest Quad	
	F Foster Quad	
	1 Shea Hall	E7
	2 Martin Hall	E7
	3 Mager Hall	E8
	4 Jenkinson Hall	E8
	5 Harper Hall	F7
	6 Gresham Dining Rm.	F8
G	Graduate's Residence Ctr.	
	1 Johnston Hall	F12
	2 Moffatt Hall	F12
	3 Vos Hall	F12
	4 Eigermann Hall	F13
	5 Foley Hall	F13
	6 Hershey Hall	F13
	7 Stempel Hall	F13
	8 Grad Dining	F14
	9 Weatherly Hall	G13
	10 Mottier Hall	G13
	11 Moenkhaus Hall	F14
	12 Aydelotte Hall	G14
	13 Aley Hall	G14
	14 Coulter Hall	G14
H	Hoosier Cts	E12
	I Hoosier Cts Eff Apts	D12
	J McNutt Quad	E6
	K Mason Hall	H5
	L Men's Residence Ctr.	H5
	M Read Hall	
	1 Beck Hse	I12
	2 Clark Hse	I11
	3 Curry Hse	H12
	4 Landes Hse	I13
N	Redbud Hill Apts	C12
O	Tater Quad	F11
P	Tulip Tree Hse	D16
Q	University Apts	
	1 West	J12
	2 East	I13
R	Walnut Grove Trailer Ctr.	E5
S	Wells Quad	
	1 Sycamore Hall	J10
	2 Memorial Hall	K10
T	Willkie Quad	H15
U	Woodlawn Ctr	G5
V	Wright Quad	G11



ACADEMIC, ADMINISTRATIVE, AND OTHERS

P	Public Parking E1, D3, D4, C4, I6, J7, H9, H10, F11, F12	15 Exchange Home	I11	29 Jordan Hall	K9	45 President's Hse	J9	
	1 Admin Services Bldg	E4	16 Fine Arts Bldg	H9	30 Kirkwood Hall	K6	46 Psychology Bldg	G7
	2 Athletic Field Hse	D5	17 Football Stadium	D, E-1, 2	31 Kirkwood Observatory	L5	47 Radio & TV Bldg	H8
	3 Audio-Visual Bldg	H12	18 Furniture Warehouse	G5	32 Law Bldg	M4	48 Residence Halls Admin	F9
	4 Auditorium	H10	19 Geology Bldg	G6	33 Library Bldg	K4	49 Rogers Bldgs	F12
	5 Ballantine Hall	J8	20 Golf Clubhouse	A9	34 (new) Library Bldg		50 Rose Well Hse	K6
	6 Beck Chapel	J7	21 Golf Driving Range	B13	(under construction)	G9	51 Services Bldg	G6
	7 Bryan Hall	L4	22 Goodbody Hall	K9	35 Lilly Library	F10	52 Showalter Fountain	I9
	8 Business Bldg (under construction)	G8	23 Health Center	F10	36 Lindsey Hall	L7	53 Social Science Bldg	L7
	9 Business & Econ Bldg	I8	24 Health Physical Education & Recreation Bldg	8	37 Maxwell Hall	K5	54 Stores Bldg	G5
	10 Chemistry Bldg	K7	25 Hilltop & Botany	17	38 Memorial Stadium	G8	55 Student Bldg	K5
	11 Cottage Grove	G5	26 Hoosier Courts Nursery	C14	39 Mitchell Hall	K7	56 Swain Hall	L6
	12 East Hall	I10	27 Experimental Gardens	C14	40 Morrison Hall	J9	57 Trees Ctr (7 Bldgs)	H14
	13 Education Bldg	J11	28 International Center	I11	41 Music Bldg	J10	58 Union, Ind Memorial	J6
	14 Ernie Pyle Hall	J6			42 Myers Hall	L8	59 Univ Schools (14 Bldgs)	C16
					43 Owen Hall	K6	60 Wylie Hall	K6
					44 Power Plant	F6		

Third Year

Bacteriology B250	3	Bacteriology B350	3
Bacteriology B255	2	Bacteriology B355	2
Zoology Z364*	4	Chemistry C313	3
Electives	6	Electives	7

15

Fourth Year

(Indianapolis Medical Center or Ft. Wayne Campus)

All courses in the 400 series are on a rotating basis, chiefly laboratory internship in character, and earn credits on the basis of one credit hour per 60 clock hours. A minimum of 2,000 clock hours must be met for certification by the Registry of Medical Technologists. The sequence of courses is so arranged that it meets Registry requirements.

- AH C400 Laboratory Practice (Introductory) (1 cr.) Staff
Meetings at intervals, during the early period of training; study of laboratory procedures. Includes technical procedures and orientation. (Continuation see C480.)
- AH C401 General Externship I (2 cr.) Carter Hospital Laboratory Staff
Experience in a type hospital with opportunity for independent work. Emphasis on contact with patients.
- AH C402 General Externship II (2 cr.) Staff
P: C401. Further experience in a type hospital; opportunity for independent work.
- AH C403 General Externship III (2 cr.) Staff
P: C401, C402. Further experience in a type hospital; opportunity for independent work.
- AH C405 Medical Laboratory Records (½ cr.) Staff
Required by Registry. Proper procedure of reporting laboratory results; method of distribution throughout various phases of work; experience in office, filing, statistical work.
- AH C410 Urine Analysis (2 cr.) Lehman
Examinations comprising routine type of urine analysis; limited experience with special tests on urine.
- Microbiology J420 Parasitology for Medical Technologists (2 cr.) Summers, Minton
Laboratory procedures; identification of more frequent parasites of man.
- AH C431 Hematology I (2 cr.) Young, Staff
Collecting, staining, and counting blood cells; supervised experience with patients in wards of Riley, Long, and Coleman Hospitals. Experience with specimens of spinal fluid, special determinations (platelets, reticulocytes) and pathologic smears.
- AH C432 Hematology II (2 cr.) Young, Staff
P: C431. C432 and C434 offer more experience (than C431 allows) in the same techniques and additional techniques such as sedimentation rate, hematocrit, and the figuring of indices.
- AH C434 Hematology III (2 cr.) Young, Staff
P: C431, C432. Continuation of practice and experience in hematologic techniques. Individual projects assigned if student is sufficiently advanced.
- AH C440 Bacteriology I (2 cr.) Buehl, Staff
Diagnostic procedures as means to familiarize student with techniques; work on specimens received from hospital patients under supervision; practical experience with all types of human specimens for bacteriologic and mycologic study.
- AH C441 Bacteriology II (2 cr.) Buehl, Staff
P: C440. Agglutination and precipitin techniques and their special application to agglutination titers and the use of antibiotics. Special assignments to provide experience with organisms infrequently encountered.
- AH C442 Bacteriology III (2 cr.) Buehl, Staff
P: C440, C441. Student should be able to handle usual and somewhat unusual hospital bacteriologic and mycologic problems independently.
- AH C450 Serology I (2 cr.) Dritsas
Flocculation and complement fixation types of serologic tests for syphilis; familiarity with Mazzini, Kline, V.D.R.L., and Kolmer complement fixation tests; emphasis on reading tests; lectures and demonstrations, including the cardiolipin antigen and methods for distinguishing false positives.

* Recommended for good students are Anatomy A310, Anatomy A464; Zoology Z215, Zoology Z364; Bacteriology B430. Those wishing to take the latter two should complete B250; B255; and B350; B355 as early as possible since they are prerequisites to the advanced courses listed above. A second year of foreign language is suggested as a junior-year elective.

- AH C451 Serology II (2 cr.) Dritsas
 P: C450. Additional experience (for students with satisfactory proficiency in C450) in adapting complement fixation, agglutination, hemagglutination, precipitin, and flocculation technique to diagnostic procedures.
- AH C460 Surgical Pathology I (2 cr.) Vellios, Pathology Residents, Staff
 Actual experience with surgical specimens removed from patients in the various hospitals; stresses rapid completion of histologic slides for microscopic examination.
- AH C461 Surgical Pathology II (2 cr.) Vellios, Pathology Residents, Staff
 P: C460. Additional practice in preparation of histologic slides for microscopic examination. In addition to the hematoxylin and eosin stain, a limited number of special techniques are required, including experience with frozen sections.
- AH C471 Clinical Chemistry I (2 cr.) Jung, Staff
 Training and experience with more frequently used chemistry tests, e.g., determinations of sugar and urea nitrogen; automated and manual methods.
- AH C472 Clinical Chemistry II (2 cr.) Jung, Staff
 P: C471. Limited experience with less frequent special procedures.
- AH C473 Clinical Chemistry III (2 cr.) Jung, Staff
 P: C471 and C472. Special equipment utilization; preparation and maintenance of stock and solutions.
- AH C474 Radioisotopes I (1 cr.) Reese, Gotshall
 Information and techniques applicable to use of radioactive materials in clinical laboratory.
- AH C475 Radioisotopes II (2 cr.) Reese, Gotshall
 P: C474. Extended experience and practice with radioactive materials under special supervision. Enrollment must be arranged by conference with faculty.
- AH C476 Chemistry IV (2 cr.) Staff
 P: Clinical Chemistry C471, C472. Advanced procedures, method developments, special projects
- AH C477 Chemistry V (2 cr.) Staff
 P: C471, C472. Training and experience in special micro procedures, technical and methodological.
- AH C478 Instrumentation (variable cr.) Lingeman
 Theory and practice with electronics as applied to instrumentation and Clinical Chemistry. Credit variable on basis of 1 credit hour per each 60 clock hours.
- AH C480 Clinical Laboratory Diagnosis (1 cr.) Staff
 P: C400. Continuation of material in C400. Ethics, relation with patients, techniques and interpretation of results, special equipment, maintenance of various types of equipment and supplies; miscellaneous subjects.
- AH C483 Specialty Externship I (2 cr.)
 Special practice in affiliated institutions, for students with proficiency in required subspecialties. Provides individual electives for special interests.
- AH C484 Specialty Externship II (2 cr.)
 Special practice in affiliated institutions, for students with proficiency in required subspecialties. Provides individual electives for special interests.
- AH C485 Specialty Externship III (2 cr.)
 Special practice in affiliated institutions for students with proficiency in required subspecialties. Provides individualized electives for special interests.
- AH C489 Basal Metabolic Techniques (1/2 cr.) Lavis
 Special theory and techniques. Actual experience with various machines. Successful tracings required.
- AH C490 Electrocardiographic Technique (1/2 cr.) Fisch, Cushman
 Lectures on theory and procedure; actual experience with apparatus; successful electrocardiograms required.
- AH C491 Blood Bank I (2 cr.) Hocker
 Review of serologic principles and technical fundamentals of transfusion practice; comprehensive consideration of blood groups and Rh factors, extensive practice with pre-transfusion techniques and safety practices. Other blood types, antigen-antibody relationships and techniques for demonstrating them. Elementary knowledge of genetics is helpful.
- AH C492 Blood Bank II (2 cr.) Hocker
 P: proficiency in C491. Transfusion service bloods provide problem cases in isoimmunization and sensitization, Rh titration, etc. Responsibility for blood bank operation and application to special transfusion problems placed on the student.
- AH C493 Blood Bank III (2 cr.) Hocker
 P: C491, C492. Required for students working toward special certificate in blood banking. Emphasis on supervision, reference techniques, and such accessory functions as plasma production.

OCCUPATIONAL THERAPY

Assistant Professors Ericson (Director), Simek; Instructors Polliard, Griffin; Lecturers Bates, Elliott, French, Gallagher, Gentry, Huss, Riekema, Slominski

Occupational Therapy is treatment through activity. It is a means of returning a patient to health through stimulating his own efforts, interests, and will. Just as work and play contribute to the well-being of a healthy person, they become even more vital when illness or injury exists. Often through the stimulus of mental and physical activity a patient's abilities can be regained or improved.

The occupational therapist is an important member of the health team which is composed of the physician, the nurse, the social worker, the psychologist, the physical therapist, and others. The restorative program, planned and carried out by this team working in close collaboration, is the process of rehabilitation. Occupational therapy, as it is employed in the prevention and treatment of disease and disability, makes use of creative and manual arts, recreation and educational activities, and prevocational and self-help pursuits.

The occupational therapist may work with patients of all ages who have a wide variety of physical and emotional problems. Pediatrics, geriatrics, physical injuries, heart disease, cerebral palsy, poliomyelitis, and mental illness are medical areas long associated with treatment by occupational therapy.

Graduates of the degree program are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in January and June of each year. Admission to the Registry is the certification of a therapist to practice.

First Year

<i>First Semester</i>		<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2
Psychology P101	3	Psychology P102	3
Sociology S161	3	Sociology S162 or S163	3-3
Electives	4	Occupational Therapy Theory I AH T203	2
Physical Education W100	1	Physical Education W100	1
Literature, Philosophy, Arts Sequence	3	Electives*	2
	16	Literature, Philosophy, and Arts Sequence	3
			16

Second Year

Psychology P324	3	Chemistry C100	5
Zoology Z103	5	Electives*	10
Classics C209	2		15
Electives*	5		
	15		

Third Year (Medical Center Campus)

Anatomy D323	5	Physiology F305	5
Kinesiology AH W376	3	Pathology C477	2
Psychiatry N303	2	Rehabilitation AH W407	1
Occupational Therapy Theory II AH T303	2	Therapeutic Techniques II AH T352	2
Therapeutic Techniques I AH T351	3	Occupational Therapy Organization and Administration AH T301	2
	15	Occupational Therapy Assessment Techniques I (Psychological) AH T371	2
		Applied Neuroanatomy AH W324	3
			17

* Recommended electives: H215, Weaving (3 cr.); S163, S164, Pottery I-II (1-1 cr.)

Fourth Year
(Medical Center Campus)

Personality Development of the Child	
AH T381	3
Clinical Lectures I AH W374	3
Clinical Lectures II AH W471	3
Therapeutic Techniques III AH T451	2
Statistics AH H304	2
Occupational Therapy Assessment Techniques	
II (Physical) AH T471	3
16	15

Occupational therapy courses in the 300 and 400 series are open only to students enrolled in the Occupational Therapy Program.

- AH T203 Occupational Therapy Theory I (2 cr.)** Ericson
Introduction to field of occupational therapy; various functions of occupational therapist. Open to all students. (Bloomington campus).
- AH T300 Occupational Therapy History (1 cr.)** Staff
History and trends in field of occupational therapy. Orientation to various specialties; organization of the national and local associations.
- AH T301 Occupational Therapy Organization and Administration (2 cr.)** Simek
Establishment and operation of an occupational therapy department, planning, equipping, and maintaining the department; methods of record keeping and reporting; ethical implications and hospital relationships.
- AH T303 Occupational Therapy Theory II (2 cr.)** Griffin
Objectives in the psychiatric field with review of types of psychiatric services and institutions; organization of occupational therapy departments associated with these settings.
- AH T351 Therapeutic Techniques I (3 cr.)** Polliard
Woodwork and plastics; care, use, and repair of simple hand and machine tools including safety techniques; various materials and techniques of fabrication.
- AH T352 Therapeutic Techniques II (2 cr.)** Elliott, Gallagher
Needle skills and minor crafts; knitting, crocheting, embroidery, hand sewing; basic leather work and small craft projects. Continuation of Therapeutic Techniques III.
- AH T371 Occupational Therapy Assessment Techniques I: Psychological (2 cr.)** Griffin
Assessment of patient behavior in occupational therapy; methods of interview, observation, recording and evaluation of techniques; relationship of occupational therapy assessment and total treatment planning.
- AH T381 Personality Development of the Child (2-3 cr.)** French
Traces the psychological, emotional, intellectual, motor, and linguistic development of the human organism from birth to adolescence. Emphasis on causal relationships. Theoretical framework within which to view child development is presented.
- AH T403 Occupational Therapy Theory IV (4 cr.)** Griffin
Techniques and objectives in management of neuromuscular disabilities; analysis of adapted media and prosthetic devices; emphasis on neuromuscular facilitation techniques.
- AH T405 Clerkship II (2 cr.)** Ericson
Current principles and practices of occupational therapy as applied in various departments; correlation of all previous and concurrent instructions in physical disabilities, weekly clinical assignments followed by seminar on cases and problems encountered; case studies of patient application assigned.
- AH T406 Occupational Therapy Seminar (2 cr.)** Griffin
Discussion in areas of special interest in occupational therapy; review of journals in psychiatric and rehabilitation fields.
- AH T451 Therapeutic Techniques III (2 cr.)** Gallagher
Continuation of Therapeutic Techniques II.
- AH T452 Prevocational Techniques (3 cr.)** Riekana
Survey of vocational skills and instruction in methods of job and activity analysis. Under supervision, students evaluate clients, administer tests, and make recommendations for placement.
- AH T453 Therapeutic Techniques IV (1, 2, or 3 cr.)** Staff
Supplemental background in technical skills to meet the needs of transfer students.
- AH T454 Activities of Daily Living (2 cr.)** Griffin
Laboratory course on materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency—special equipment such as slings and wheelchairs; experience in making and fitting hand splints.

AH T471 Occupational Therapy Assessment Techniques II; Physical (3 cr.) Griffin

Lecture and demonstration on assessment of patient behavior in occupational therapy; methods of assessing and reporting joint range of motion and muscle strength through muscle tests.

A minimum of nine months of clinical training is required for registration as an occupational therapist. Three months of this training may be taken during the summer between the junior and senior years; the remainder immediately following the senior year. Students are assigned to various hospitals by the Director.

AH T455 Clinical Training I (2 cr.) (three months)	Polliard
AH T456 Clinical Training II (2 cr.) (two months)	Polliard
AH T457 Clinical Training III (2 cr.) (two months)	Polliard
AH T458 Clinical Training IV (2 cr.) (two months)	Polliard

PHYSICAL THERAPY

Associate Professor Ekstam (Director); Assistant Professor Young; Instructors Ladue, Randolph; Lecturers Anderson, Arnold, Babiak, Boger, Fredrickson, Gehris, Hagar, Kennedy, Kinsman, Koehneke, Lewis, Martin, Strunk, Whitfield, Winner

Physical therapy is the treatment of disease and injury by physical properties of exercise, massage, heat, cold, water, electricity and ultrasound. Restoration of bodily function, prevention of disability, and maximum performance within the limits of physical capabilities are the ultimate goals of treatment. A physical therapist administers treatment upon referral by a physician.

The legal practice of physical therapy in Indiana is regulated by the Indiana State Board of Medical Registration and Examination. Success in the state examination entitles the candidate to a physical therapist license, enabling him to practice in Indiana or in those states honoring reciprocity with Indiana.

The curriculum in the Physical Therapy Program is approved by the American Physical Therapy Association in collaboration with the Council on Medical Education of the American Medical Association.

First Year

<i>First Semester</i>		<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2
Chemistry C101	5	Chemistry C102	5
Psychology P101	3	Psychology P102	3
Physical Education W100	1	Physical Education W100	1
Literature, Philosophy, and Arts Sequence	3	Literature, Philosophy, and Arts Sequence	3
Electives	2	Electives	2
	<hr/> 16		<hr/> 16

Second Year

Zoology Z103	5	Physics P100	5
Sociology S161	3	Zoology Z215	5
Classics C209	2	Sociology S162 or S163	3
Electives	5	Introduction to Physical Therapy AH P204	2
	<hr/> 15	Electives	2
			<hr/> 17

Third Year

(Medical Center Campus)

Anatomy D323	5	Physiology F305	5
Kinesiology AH W376	3	Applied Neuroanatomy AH W324	3
Child Development AH W373	3	Therapeutic Exercise II AH P481	3
Therapeutic Exercise I AH P384	2	Physical Tests and Measurements AH P382	3
Physical Agents I AH P461	2	Pathology C477	2
History, Administration and Professional Relationships AH P478	2	Clinical Lectures III AH W472	2
	<hr/> 17		<hr/> 18

**Summer Session
(8 weeks)**

Clinical Education I AH P491 2

**Fourth Year
(Medical Center Campus)**

Applied Physiology AH P483	2	Clinical Education II AH P492	8
Clinical Lectures I AH W374	3		
Clinical Lectures II AH W471	3		8
Physical Agents II AH P462	3		
Therapeutic Exercise III AH P482	3		
Psychopathology N303	2		
Applied Physical Therapy AH P485	2		
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	18		

Physical Therapy courses in the 300 and 400 series in Indianapolis are open only to students enrolled in the Physical Therapy Program.

- AH P204 Introduction to Physical Therapy (2 cr.) Ekstam
Introduction to physical therapy profession; educational requirements, treatment techniques, and professional opportunities. Open to all students. (Bloomington Campus).
- AH P382 Tests and Measurements (Physical) (3 cr.) Ladue
Methods and devices used in measuring and testing in physical therapy. Lecture and laboratory.
- AH P384 Therapeutic Exercise I (2 cr.) Young
Application of treatment techniques for specific disabilities, including practical application of various types of apparatus. Lecture and laboratory.
- AH P461 Physical Agents I (2 cr.) Ladue
Instruction and practice in application of massage, heat, cold, water, and light. Lecture and laboratory.
- AH P462 Physical Agents II (3 cr.) Diamandidou
Instruction and practice in electrical testing and application of electrotherapy procedures. Lecture and laboratory.
- AH P478 History, Administration, and Professional Relationships (2 cr.) Ekstam
Historical background of physical therapy, organization and administration, ethical conduct, medico-legal considerations, and professional relationships with allied medical services.
- AH P481 Therapeutic Exercise II (3 cr.) Ladue
Instruction and practice in ambulation, activities of daily living, and use of prosthetic and orthotic devices. Lecture and laboratory.
- AH P482 Therapeutic Exercise III (3 cr.) Diamandidou
Introduction to proprioceptive neuromuscular facilitation techniques. Lecture and laboratory.
- AH P483 Applied Physiology (2 cr.) Young
P: Physiology, F305. Lectures on basic principles of physiology as applied to physical therapy.
- AH P485 Applied Physical Therapy (2 cr.) Ekstam
Lectures, demonstration of cases; discussion of pathology, etiology, and treatment.
- AH P491 Clinical Education I (2 cr.) Ekstam
Experience in patient treatment; knowledge and understanding of physical therapy techniques.
- AH P492 Clinical Education II (8 cr.) Ekstam
Advanced experience in patient treatment supervised by registered physical therapists in facilities affiliated with the educational program.

**COORDINATED COURSES PRIMARILY FOR OCCUPATIONAL THERAPY
AND PHYSICAL THERAPY STUDENTS**

- AH W324 Applied Neuroanatomy (3 cr.) Young
P: Anatomy D323. Emphasis on structure and gross function of nervous system as basis for clinical neurology.
- AH W373 Child Development (3 cr.)
Physical, mental, social, and emotional development of children from birth through adolescence; emphasis on development of normal children, although problems of handicapped children will be considered.
- AH W376 Kinesiology (3 cr.) Simek, Young
Principles of joint and muscle functions; muscle action in various physical activities.

- AH W374 Clinical Lectures I (3 cr.) Meadows, Mandelbaum
Lectures in medicine, surgery, and pediatrics.
- AH W471 Clinical Lectures II (3 cr.) Garceau, Palmer
P: AH D323, AH W324, C477. Lectures and clinical presentations in orthopedics and neurology.
- AH W472 Clinical Lectures III (2 cr.) Staff
Lectures and clinical presentations dietetics, geriatrics, obstetrics, gynecology, urology, otolaryngology, dermatology, patient contacts, ophthalmology, speech therapy, sight and hearing, and public health problems.
- AH W407 Rehabilitation (1 cr.) Griffin
Survey of field of rehabilitation; review of local facilities; lectures by members of various specialties contributing to all aspects of rehabilitation; case conference of a rehabilitation team.

PUBLIC HEALTH GENERAL COURSES

- AH H301 Public Health Organization and Administration (3 cr.) Staff
Historical background, early development, objectives of public health; its structure at federal, state, and local level; legal and financial aspects, organization, administration, program content; function of each professional category of personnel with emphasis on community understanding and cooperation.
- AH H304 Statistics (2 cr.) Chase
Collection, tabulation, and elementary analysis of data; measures of central tendency, of variability, tests of significance, sampling procedures; prepares student to draw justified conclusion from numerical data.
- AH H490 Research (cr. arr.) Hopper, Adams
For advanced students only. Supervised research problems in field of public health.

PUBLIC HEALTH DENTAL HYGIENE

(Department of Preventive Medicine)

Dean and Professor Hine; Professors Phillips, Raidt, Shafer, Starkey, Van Huysen; Associate Professors Adams, Chase, Ping, Standish; Assistant Professors Fisk (Director Dental Hygiene Program), Beck, Norman, Schimmele; Instructors Ackerman, Herman, Miller, Totten, Hamilton; Lecturers Bland, Garriott, Jones, McClelland, Weinberg

In addition, staff includes faculty members of the School of Medicine, the Indianapolis Downtown Campus, Indiana-Purdue Regional Campus, Fort Wayne, and the Indiana State Board of Health.

The dental hygienist is the member of the health team concerned with the prevention of diseases of the mouth. The dental hygienist studies a professional college program which entitles a graduate, upon successful passage of a state board examination, to perform specific treatments for children and adults, to take and process dental x-rays, to assume duties in the dental office, and/or to participate as a health worker in federal, state, or local public health and educational programs.

Indiana University offers a program which leads to a certificate in Dental Hygiene and a program which leads to a Bachelor of Science degree in Public Health Dental Hygiene. While the certificate program is adequate to prepare the dental hygienist to perform the tasks which may be assigned in a private dental office, additional knowledge and skills are necessary for positions involving the responsibilities of education and administration. Because of increasing interest among dental hygienists for these opportunities, a degree program is offered by the Division of Allied Health Sciences of the School of Medicine.

The first or freshman year may be taken at any college or university but courses must be comparable to those offered by Indiana University in order to transfer for credit. The second and third or the sophomore and junior years must be taken in the School of Dentistry, Indiana University in Indianapolis or the Indiana-Purdue Regional Campus in Fort Wayne. The fourth or senior year must be taken in the Division of Allied Health Sciences of the School of Medicine in Indianapolis.

First Year

<i>First Semester</i>		<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2
Government G103*	3	Government G104*	3
Literature, Philosophy, and Arts Sequence ...	3	Literature, Philosophy, and Arts Sequence ...	3
Speech and Theatre S121	2	Sociology S161	3
Physical Education W100	1	Physical Education W100	1
Chemistry C100 or C101	5	Elective	4
	16		16

Second Year

(Medical Center Campus or Fort Wayne Campus)

Human Biology I D HYG H212	4	Human Biology II D HYG H213	4
Dental Anatomy D HYG H214	3	Pharmacology and Therapeutics D HYG H215	1
Chemistry and Nutrition D HYG H216	3	Psychology P101	3
Dental Prophylaxis Techniques D HYG H218	3	Preventive Dentistry D HYG H217	1
Sociology S309	—	Microbiology for Dental Hygienists J207	3
	16	Clinical Practice D HYG H219	4
			16

Third Year

(Medical Center Campus or Fort Wayne Campus)

Radiology D HYG H303	2	Radiology Laboratory D HYG H303	1
Dental Materials D HYG H308	2	Technical Writing D HYG H310	2
Oral Pathology D HYG H304	2	Public Health Education Methods AH E443	3
Public Health Organization and Administration AH H301	3	Practice of Community Dental Hygiene D HYG H309	2
Psychology P102	3	First Aid HPER H160	1
Clinical Practice I D HYG H301	5	Clinical Practice II D HYG H302	5
	17	Principles of Environmental Health AH S321	3
			17

Fourth Year

(Medical Center Campus)

Statistics AH H304	2	Seminar in Public Health Dentistry AH D441	2
School Health Education AH E440	3	Public Health Field Practice AH D465	5
Community Health Education AH E442	3	Research AH H490	2
Clinical Supervision AH D401†	2	Speech Pathology AH D403	2
Psychology P324	3	Electives	5
Speech and Theatre S223	3		16
Electives	2 or 3		
	18 or 19		

- AHD401 Clinical Supervision (2 cr.) Fisk
 Supervisory experience in clinics and laboratories involved in teaching students enrolled in Dental Hygiene curriculum; problems incident to patient-student and instructor-student relationships.
- AHD403 Speech Pathology (2 cr.) Weinberg
 Orientation to speech pathology; emphasis on dental-related problems.
- AHD441 Public Health Dentistry (2 cr.) Staff
 Orientation to the socio-economic challenges to dentistry; dental manpower, population trends, utilization rates, and pre- and post-payment plans as related to dental public health programs; special outside assignments require both oral and written reports.
- AHD465 Public Health Field Practice (5 cr.) McClelland
 Supervised field training consisting of five-week assignment with an official health agency, permitting the student to observe and participate in all phases of dental health.

PUBLIC HEALTH EDUCATION
 (Department of Preventive Medicine)

Professor Hopper (Director); Associate Professors, Adams, Chase; Instructor Yoho; Lecturers Bland, Jones, McClelland

The health educator's major aim is to help people understand their health needs and how to meet these needs as individuals and as members of a group, family, community, or nation. The health educator helps people to think critically and to make

* Should be selected for social science requirement to provide background for later public health courses. Substitution can be made only with the specific approval of the counselor.

† Admission by permission of the Director of Dental Hygiene, School of Dentistry.

intelligent choices in their health behavior. He must be well grounded in the basic and social sciences since he will be explaining and interpreting the latest developments in the health sciences and will be motivating people to use them.

In recent years, there has been an expansion of health education activities in schools, in public health departments, in voluntary health agencies, and in industrial and commercial companies. The emphasis upon health education is expected to continue and the number of personnel needed will greatly increase.

For the health education teacher in a secondary school, it is advisable to become certified in health education and in a second subject such as physical education, science, or social science.

There are opportunities to become a health education consultant or specialist in a state or city department of health, in the U.S. Department of Health, Education and Welfare, or in some professional organization such as the American Medical Association or American Dental Association.

Voluntary health organizations at the local, state, and national levels, such as tuberculosis, cancer, or infantile paralysis groups and heart or crippled children's societies need trained health educator.

Actual field practice is a requirement for completion of the program. Ten semester hours of credit are required in the latter part of the second semester of the senior year and consist of supervised practical experience with state and local departments of public health.

<i>First Semester</i>		First Year	<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2	2
Chemistry C100	5	Zoology Z103	5	5
Literature, Philosophy, Arts Sequence	3	Literature, Philosophy, Arts Sequence	3	3
Physical Education W100	1	Physical Education W100	1	1
Electives	4	Electives	4	4
	<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> 15		<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/>	15
Second Year				
Psychology P101	3	Psychology P102	3	3
Sociology S161	3	Sociology S163	3	3
Speech S121	2	Speech S223	3	3
Electives	7	Journalism J327*	3	3
	<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> 15	Electives	3	3
			<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/>	15
Third Year				
Bacteriology B250	3	Physiology P204	5	5
Bacteriology B255	2	Government G104	3	3
Government G103	3	Sociology S309	3	3
Psychology P234	3	Radio and Television R204*	3	3
Electives	3	Anthropology A303*	3	3
	<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> 14		<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/>	17
Fourth Year				
(Medical Center Campus)				
Public Health Organization and Administration AH H301	3	Public Health Education Methods AH E443	3	3
Statistics AH H304	2	Speech Pathology AH D403	2	2
Environmental Health AH S321	3	Public Health Field Practice AH E465	10	10
Epidemiology and Occupational Health AH S408	2		<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/>	15
School Health Education AH E440	3			
Community Health Education AH E442	3			
	<hr style="width: 100%; border: 0; border-top: 1px solid black; margin-bottom: 5px;"/> 16			

AHE440 School Health Education (3 cr.)

Bland

The school health movement, including the development, present day policies, programs and problems; health services, environmental factors, communicable disease control, health instruction, and hygiene of the school day.

* Recommended elective. Substitution may be made only with permission of director.

- AH E442 Community Health Education (3 cr.) Jones
 Intensive study of social, psychological, economic, and cultural factors influencing successful application of the health sciences; relationship between different public health disciplines and agencies and techniques employed.
- AH E443 Public Health Education Methods (3 cr.) McLelland
 Usual techniques of group work with investigations of social and psychological factors which determine effectiveness in promoting public health. Laboratory time provides opportunity for competence in group work and in design and use of promotional materials.
- AH E465 Public Health Field Practice (10 cr.) McLelland
 Supervised field training is done on full-time basis for 9 weeks in selected official and voluntary health agencies. Students assist in planning and conducting health education activities.

PUBLIC HEALTH-ENVIRONMENTAL HEALTH
 (Department of Preventive Medicine)

Professor Hopper; Associate Professors Adams (Director), Chase, Summers; Assistant Professor Spolyar; Lecturers Fassnacht, Fisher, Hert, Keppler, Marshall, McCowen, Mayo, Poole

Environmental health is a branch of the biological sciences dealing directly with the health aspects of man's physical surroundings. Its purpose is two-fold: (1) the control of conditions under which man lives so that hazards leading to disease and injury can be eliminated; (2) the teaching of hygiene and the principles of sanitation to the general public and to others whose activities deal with water, food, air, radiological health, community wastes, and shelter. Laws and regulations also are involved as they pertain to the needs of community health protection.

Within the past decade great new areas have opened up for the student of environmental health—air pollution control, radiological health, water pollution control, housing, and food technology. Appropriation funds for research and study in these fields now exceed the supply of trained personnel to carry on this work.

Upon graduation students become eligible to take examinations as registered professional sanitarians under laws now in effect in Indiana and 28 other states. Graduates are also eligible to take federal, state, and local examinations for positions in governmental public health agencies. In addition, industry and commerce offer employment. Graduate training under Federal Scholarships is available.

First Year

<i>First Semester</i>		<i>Second Semester</i>	
English Composition W131	2	English Composition W132	2
Chemistry C101	5	Chemistry C102	5
Mathematics M115 or M117	5 or 3	Speech S121	2
Physical Education W100	1	Government G103†	3
Elective*	3	Fine Arts H100*	3
		Physical Education W100	1
	16 or 15		16

Second Year

Government G104	3	Physics P100	5
Psychology P101	3	Anthropology A103†	3
Sociology S161†	3	Sociology S163†	3
Zoology Z103	5	Electives	2
Comparative Literature C225*	2		13
	16		

Third Year

Bacteriology B250	3	Physiology P204	5
Bacteriology B255	2	Government G321	3
Speech S223	3	Sociology S309	3
Electives	8	Electives	5
	16		16

* Fulfills the Literature, Philosophy, and Arts sequence for this program.

† Fulfills the Social Science sequence for this program.

Fourth Year
(Medical Center Campus)

Public Health Organization and Administration AH H301	3	Parasitology and Entomology AH S423	3
Statistics AH H304	2	Public Health Education Methods AH E443	10
Environmental Health AH S321	3	Public Health Field Practice AH S465	10
Epidemiology and Occupational Health AH S408	2		16
Food and Dairy Technology AH S428	4		
Elements of Water and Sewage AH S432	2		
	16		

- AH S321 Principles of Environmental Health (3 cr.) Hopper, Adams
Objectives of environmental health control; water supplies, sewage systems, solid waste handling, air hygiene, food and milk sanitation, housing, radiological health, and legal and administrative phases; laboratory periods in sanitary chemistry and bacteriology.
- AH S408 Epidemiology and Occupational Health (2 cr.) Marshall, Spolyar, Keppler
Cause, mode of transmission, and methods of prevention in control of common communicable diseases; methods of modern preventive medicine; industrial and occupational health hazards involving protective devices and measures for employee protection.
- AH S423 Parasitology and Entomology (3 cr.) Staff
Survey of parasites and insects of public health importance effecting man; laboratory exercises in identification of insects; study of control measures and use of modern insecticides; rodents as disease vectors.
- AH S428 Food and Dairy Technology (4 cr.) Adams, Fisher
Food and dairy technology, food and dairy processing methods; field trips to processing plants for observation; legal definitions of various products; control techniques.
- AH S432 Elements of Water and Sewage (2 cr.) Fassmacht, Hert
Basic principles of water supply; epidemiology of water, including interpretation of laboratory examinations; sewage disposal studies include private installations; use of larger facilities for sewage treatment at schools, institutions and housing developments; solid waste disposal systems.
- AH S465 Public Health Field Practice (10 cr.) Adams, Mayo
Supervised field training of 9 weeks with local health department or Indiana State Board of Health; variety of health problems studied.

PUBLIC HEALTH ADMINISTRATION
(Department of Preventive Medicine)

Professor Hopper (Director); Associate Professor Adams; Assistant Professors Spolyar, Offutt, Ridley; Instructor Yoho; Lecturers Bland, Fisher, Smith; Staff from Indiana University School of Business; Advisory Council from Governmental and Voluntary Health, Hospital, Insurance, and Management Agencies

There is a challenging future for business-oriented personnel in medical administrative procedures. Health, in its many and varied aspects, has expanded so rapidly that major policy issues involving budgets, insurance, law, and general management require trained people to assist the physician in these areas. Health departments at state, county, and city levels offer opportunities for administrative practice in the development of standards and in professional staff training and evaluation. In addition, voluntary health agencies have awakened the public to the tremendous demands for knowledge and action in health matters and offer attractive positions to those trained in management skills. Other fields include health and hospital insurance plans, county medical societies, nursing homes, and hospitals. Health is personal as well as public; it is dynamic and ranks high on the list of what might be called big business. For students who like to work with others, who want variety and challenge in their work, and who can make decisions, Health Administration is a field with a wide horizon and a bright future.

The Division of Allied Health Sciences in cooperation with the School of Business offers a course of study leading to the B.S. degree in Public Health with a major in Health Administration. Candidates for this degree must complete three years of pre-professional business courses on the Bloomington Campus as outlined in the Core Curriculum of the School of Business, including the Comprehensive Business Examination.

- AH B401 Introduction to Hospital Administration I (3 cr.) Ridley
 General orientation to hospital departments, hospital organization, board of trustees, medical staff, administration, concept of management in a public service enterprise.
- AH B402 Introduction to Hospital Administration II (3 cr.) Ridley
 Role of hospital in community, hospital goals and programs, coordination of hospital departments, managerial evaluation and improvement, relationships to official and voluntary health agencies.
- AH B421 Management in Health Organizations I (3 cr.) Staff
 Analysis of major policy issues in management of health organizations; establishment of need as basis for proposal and budget; setting of standards; development of programs.
- AH B422 Management in Health Organizations II (3 cr.) Staff
 Executive and professional staff responsibilities and development; evaluation and utilization of quantitative data collected for management; internal communication and control; emphasis on decision-making process in evaluation and reappraisal.
- AH B411-B412 Nursing Home Administration I and II (3-3 cr.) Hopper
 Nursing home regulations, legal aspects, and insurance; personnel management; medical records; diet and food service; rehabilitation; nursing services; psychiatric aspects in handling of geriatric patients; professional standards; use of volunteer groups.
- AH B465 Field Practice (10 cr.) Hopper
 Supervised field training of 9 weeks in administrative practice in voluntary or official health-related agency; student participates in various phases of health administration at the management level.

X-RAY TECHNOLOGY

Professors Campbell, Lochr; Associate Professors Helmen (Director); Assistant Professors Kurlander, Peterson, Tosick; Instructor Reese; Lecturers Allen, Barrier, Chandler, Covert, Ewton, Fuller, Galloway, Kehrein, Hornback, Lantz, Popcheff, Robinson, Shoop, Whaley, Wideman, Young

College students or graduates of approved high schools are eligible for admission to this two-year course. Students are selected for the course on the basis of their previous educational qualifications and their basic aptitude as determined at the time of personal interview in the Department of Radiology.

Applications for this training program should be filed with the Department of Radiology of Indiana University School of Medicine before June 1, as they are processed in the order in which they are received. The course will not give the student credit toward a University degree. New courses begin each September. Each new class is limited in number. At the end of the second year, students receive a certificate from Indiana University and take the examination of the American Registry of X-Ray Technologists.

The curriculum follows a definite pattern designed to train the technician to become adept in the performance of any technical medical radiological procedure within the admitted limitations of the ethical and medicolegal aspects of his training. The training begins with those principles which are fundamental to the medical profession. Integrated with this are the varied courses in radiological principles and technological procedures.

(Medical Center Campus) First Year

<i>First Semester</i>		<i>Second Semester</i>
Anatomy and Physiology AH R902	3	AH R947 Clinical Practice—(792 clock hrs.) 15
Medical Terminology AH R903	1	
Surgery and Portables AH R905	1	
Darkroom Chemistry AH R915	1	
Office Procedures AH R920	1	
Physics AH R900	2	
Nursing Procedures AH R930	1	
Basic Roentgenographic Technique AH R935	3	
Principles of Radiology AH R940	2	
Principles of Radiology Lab AH R940	1	
Principles of Fluoroscopy AH R990	1	

Summer Session

AH R948 Clinical Practice—(500 clock hrs.) 6

Second Year

AH R947 Clinical Practice—(792 clock hrs.) 15	History and Ethics AH R904	2
	Radiation Therapy AH R945	2
	Advanced Radiographic Technique AH R950	3
	Formulating Technique AH R955	3
	Principles of Radiology II AH R975	3
	Radioactive Isotope Procedure AH R980	2
	Pathology AH R985	2
		<hr/>
		16

Summer Session

990 Comprehensive Experience—(500 clock hrs.) 6

AH R900 Radiation Physics (2 cr., 32 clock hrs.)	Reese
Fundamentals of physics of electricity and radiant energy; physics and radiology.	
AH R902 Anatomy and Physiology (3 cr., 48 clock hrs.)	Kehrein, Chandler
Normal structure and function of human body; emphasis on topographic and radiographic anatomy.	
AH R903 Medical Terminology (1 cr., 16 clock hrs.)	Mishkin
Origin, meaning, and derivation of medical and related words.	
AH R904 History and Ethics (2 cr., 32 clock hrs.)	Loehr
Important historical events in physics leading to discovery of x-rays; duties and responsibilities of the technician to patients, doctors, and general hospital personnel in matters of medical ethics.	
AH R905 Surgery and Portables (1 cr., 16 clock hrs.)	Barrier, Chandler, Kehrein, Covert
Students assume responsibility in taking of emergency examinations of critically ill patients; use of bedside equipment and operating room facilities. (Lab, 163 clock hrs.)	
AH R915 Darkroom Chemistry (1 cr., 16 clock hrs.)	Robinson
Composition and preparation of chemicals used in developing process. (Lab, 163 clock hrs.)	
AH R920 Office Procedures (1 cr., 16 clock hrs.)	Whaley
Systematic filing of films, charts, and reports; public relations and legal considerations.	
AH R930 Nursing Procedures for X-Ray Technologists (1 cr., 16 clock hrs.)	Fuller, Nursing Staff
Duties in personal care of patient; some emergency care; aseptic technique, contagious diseases, and patient care equipment.	
AH R935 Basic Roentgenographic Technique (3 cr., 48 clock hrs.)	Staff
Basic fundamentals concerned with production, analysis, and recording of x-ray image; basic factors and properties in medical radiography in relation to diagnostic radiographic exposure and in therapeutic application of such energy.	
AH R940 Principles of Radiology Laboratory (1 cr., 16 clock hrs.)	Helmen, Loehr
Supplements Principles of Radiology; practical experience in applying principles of radiation exposures.	
AH R945 Radiation Therapy (2 cr., 32 clock hrs.)	Galloway, Young, Hornback
Various types of radiation therapy devices, their application to disease, types of treatments given, positioning of patients, and recording of treatments. (Lab, 163 hrs.)	
AH R950 Advanced Radiographic Positioning (3 cr., 48 clock hrs.)	Staff
Lecture and laboratory exercises explaining advanced positioning techniques with emphasis on pediatric techniques, cineradiography, angiography, and less common procedures.	
AH R955 Formulating Radiographic Technique (3 cr., 48 clock hrs.)	Wideman
Technical factors used to produce good radiographs, and principles in making exposure charts. Dental radiography lab, 8 clock hrs.	
AH R975 Principles of Radiography II (3 cr., 32 clock hrs.)	Helmen
Radiation protection factors involved in film quality including application of accessory devices and capabilities and limitations of x-ray equipment.	
AH R980 Radioactive Isotope Procedures (2 cr., 32 clock hrs.)	Popcheff, Reese, Ewton
Basic nuclear physics with an introduction to basic instrumentation and clinical application of medical isotopes. (Lab, 163 hrs.)	
AH R985 Medical and Surgical Diseases (2 cr., 48 clock hrs.)	Shoop
Orientation to study of abnormal structure and function of human body; emphasis role of radiographic diagnosis in disease.	
AH R990 Principles of Fluoroseopy (1 cr., 16 clock hrs.)	Miller, Allen, Lantz
Modern use of fluoroseopy in radiology. (Lab, 326 clock hrs.)	

COURSES: THE SCHOOL OF MEDICINE

- Anatomy D323 Anatomy (5 cr.)** Staff
Gross human anatomy for physical and occupational therapy students. Predisected material utilized.
- Microbiology J207 Microbiology for Dental Hygienists (2 cr.)** Raidt
Principles and applications of microbiology for dental hygienists.
- Microbiology J420 Parasitology for Medical Technologists (2 cr.)** Summers, Minton
Required for medical technologists; laboratory procedures and identification of the larger parasites of man.
- Pathology C477 Pathology (2 cr.)** Staff
Lectures on principles of pathology; study of various diseased body tissues.
- Physiology F305 Human Physiology (5 cr.)** Staff
For physical and occupational therapy students. Animal and human physiology; neuromuscular system, respiratory, circulation, digestion, metabolism, excretion, and endocrines. Laboratory work concerned with exercises and demonstrations on neurophysiology and the physiology of muscular activity.
- Psychiatry N303 Psychopathology (2 cr.)** Staff
Emotional stress and the resultant defense mechanisms; organic brain syndromes, schizophrenic reactions, and psychoneurotic disorders through lecture and case presentations.
- Psychiatry N306 Clinical Psychopathology (1 cr.)** Ericson
Clinical aspects of deviant behavior through discussion, films, case studies, and hospital visits.

COURSES: INDIANAPOLIS DOWNTOWN CAMPUS

Students wishing to enroll in courses offered at the Downtown Campus must give four weeks' advance notice to the Allied Health Sciences Division Office.

- Business C300 Office Management and Administration I (2 cr.)**
- Business W300 Principles of Management and Administration (3 cr.)**
- Business J340 Personnel Management (3 cr.)**
- Classics C209 Greek and Latin Elements in Medical Terminology (2 cr.)**
- Government G103 Introduction to American Government I (3 cr.)**
- Government G104 Introduction to American Government II (3 cr.)**
- Government G321 The Government and Administration of Urban Communities (3 cr.)**
- Psychology P101 Introductory Psychology I (3 cr.)**
- Psychology P102 Introductory Psychology II (3 cr.)**
- Psychology P234 Mental Hygiene (3 cr.)**
- Psychology P324 Abnormal Psychology (3 cr.)**
- Sociology S309 The Community (3 cr.)**
- Sociology S335 Race and Ethnic Relations (3 cr.)**
- Speech and Theatre S121 Public Speaking (2 cr.)**
- Speech and Theatre S223 Business and Professional Speaking (3 cr.)**

CORE AND ELECTIVE COURSES: BLOOMINGTON CAMPUS*Anatomy*

A210 Elementary Human Anatomy (5 cr.)

Anthropology

A103-A104 General Anthropology, I, II (3-3 cr.)

Biology

B100 Man and the Biological World (5 cr.)

B101 Plant Biology (5 cr.)

B320 Microtechnique (4 cr.)

Business

W100 Business Administration: Introduction (3-4 cr.)

W305 Data Processing (2 cr.)

Chemistry

- C100 Chemistry in the Modern World (5 cr.)
 C101 A Descriptive Survey of Chemistry I (5 cr.)
 C102 A Descriptive Survey of Chemistry II (5 cr.)
 C105 General Chemistry I (5 cr.)
 C106 General Chemistry II (5 cr.)
 C313 Quantitative Clinical Chemistry (3 cr.)
 C341 Organic Chemistry I (3 cr.)

Classical Languages and Literatures

- C209 Greek and Latin Elements in Medical Terminology (2 cr.)

Comparative Religion

- C153-C154 Introduction to World Religions I, II (3-3 cr.)

Economics

- E111-E112 Economic Development of Western Civilization I, II (3-3 cr.)
 E201-E202 Principles of Economics I, II (3-3 cr.)

English

- W131-W132 Elementary Composition I, II (2-2 cr.)
 L101-102 Freshman Literature, I, II (3-3 cr.)

Fine Arts

- H100 Art Appreciation (3 cr.)
 H223-H224 Introduction to History of Art I, II (3-3 cr.)
 S101 Introduction to Design (2 cr.)
 S102 Color and Calligraphy (2 cr.)
 S135 Introduction to Drawing (3 cr.)
 S136 Pictorial Composition (2 cr.)

French

- F101-F102 Elementary French I, II (5-5 cr.)
 F201-F202 Second-Year Composition and Oral Practice I, II (2-2 cr.)
 F211-F212 Modern French Prose I, II (3-3 cr.)

Geography

- G105 Introduction to Physical Geography (3 cr.)
 G107 Introduction to Physical Geography (5 cr.)

Geology

- G100 Geology and Man (5 cr.)
 G105 Elements of Geology (5 cr.)
 G106 Minerals and Rocks (5 cr.)

German

- G101-G102 Elementary German I, II (5-5 cr.)
 G201-G202 Second-Year Composition and Conversation I, II (2-2 cr.)
 G211-G212 Second-Year Reading I, II (3-3 cr.)
 G231-G232 Scientific German I, II (3-3 cr.)

Government

- G103-G104 Introduction to American Government I, II (3-3 cr.)

History

- H103-H104 History of Western European Civilization I, II (3-3 cr.)
 H105-H106 American History: General Course I, II (3-3 cr.)
 H101-H102 The European-American World Since 1500 (3-3 cr.)

Home Economics

- H107 Clothing Construction (2 cr.)
 H114 Home Nursing (2 cr.)

H116 Food Preparation and Meal Service (3 cr.)

H118 Art in Everyday Life (3 cr.)

Italian

M101-M102 Elementary Italian I, II (5-5 cr.)

Linguistics

L103 Introduction to the Study of Language, Content and Techniques of Linguistics
(3 cr.)

Mathematics

M115 Elementary College Mathematics (5 cr.)

M117 Introduction to College Mathematics (3 cr.)

M119 Elements of Calculus (3 cr.)

M131 Plane Analytic Geometry (2 cr.)

M211 Calculus I (3 cr.)

Music

X050 University Orchestras (1½ cr.)

X060 University Bands (1½ cr.)

X070 A Capella Singers or Women's Chorus (1½-1½ cr.)

X070 The Singing Hoosiers (1½ cr.)

X070 The Belles of Indiana (1½ cr.)

X070 University Singers (1½ cr.)

X070 Chamber Vocal Ensemble (1½ cr.)

X070 Oratorio Chorus (1½ cr.)

R151-R152 Introduction to Musical Theater I-II (3-3 cr.)

Applied Music (2 or 6 cr.)

Philosophy

P100 Introduction to Philosophy (3 cr.)

Physical Education For Men (HPER)

A181-A182 Orientation to Athletic Training I, II (3-3 cr.)

H160 First Aid (2 cr.)

R180 Recreation Leadership (2 cr.)

R273 Arts and Crafts (2 cr.)

Physics

P100 Physics in the Modern World (5 cr.)

P201 General Physics: Mechanics, Heat, and Sound (5 cr.)

P202 General Physics: Light, Electricity, and Magnetism (5 cr.)

Physiology

P204 Elementary Human Physiology (5 cr.)

Psychology

P101-P102 Introductory Psychology I, II (3-3 cr.)

P111-P112 Introductory Laboratory Psychology I, II (2-2 cr.)

Slavic Languages and Literatures

R101-R102 Elementary Russian I, II (5-5 cr.)

Sociology

S161 Principles of Sociology (3 cr.)

S162 Society and the Individual (3 cr.)

S163 Social Problems (3 cr.)

S309 The Community (3 cr.)

Spanish

S101-S102 Elementary Spanish I, II (5-5 cr.)

S203-S204 Second-Year Spanish I-II (4-4 cr.)

Speech and Theatre

- S121 Public Speaking I (2 cr.)
- S122 Public Speaking II (2 cr.)
- S131 Fundamentals of Theatre Practice I (3 cr.)
- S160 Speech Correction for Classroom Teaching (3 cr.)
- S163 Speech Clinic (1-4 cr.)
- S200 Training the Speaking Voice (1 cr.)
- S224 Parliamentary Procedure (1 cr.)
- S240 Appreciation of the Theatre (2 cr.)

Zoology

- Z103 Animal Biology (5 cr.)
- Z215 Developmental Anatomy (5 cr.)

Faculty and Staff

Certification Abbreviations

- A.R.I.T.—American Registry of Inhalation Therapists; approved by the American Society of Anesthesiology and the American College of Chest Physicians
- C.R.L.—Certified Record Librarian; approved by the American Association of Medical Record Librarians
- C.T. (ASCP)—Cytotechnologist; approved by the American Medical Association and the American Society of Clinical Pathologists
- H.T. (ASCP)—Histological Technician; approved by the American Medical Association and the American Society of Clinical Pathologists
- M.T. (ASCP)—Medical Technologist; approved by the American Medical Association and the American Society of Clinical Pathologists
- M.T. (ASCP) BB—Blood Banking Technologist; approved by the American Medical Association and the American Society of Clinical Pathologists
- N.M.T. (ASCP)—Nuclear Medical Technologist; approved by the American Medical Association and the American Society of Clinical Pathologists
- O.T.R.—Registered Occupational Therapist; approved by the American Medical Association and the American Occupational Therapy Association
- R.D.H.—Registered Dental Hygienist; approved by the American Dental Association
- R.P.T.—Registered Physical Therapist; approved by the American Medical Association and the American Physical Therapy Association
- R.R.L.—Registered Medical Record Librarian; approved by the American Medical Association and the American Association of Medical Record Librarians

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