



# **Indiana University**

## **Division of ALLIED HEALTH SCIENCES**

### **Bulletin 1975/76**

## INDIANA UNIVERSITY

### *Academic Programs in*

★College of Arts and Sciences

★Division of Optometry

★School of Business\*

Division of Continuing Education†

★School of Dentistry

★School of Education\*

Division of General and Technical Studies

★Graduate School

★School of Health, Physical Education, and Recreation

★Herron School of Art

Indianapolis Law School

★School of Law

★Graduate Library School

★School of Medicine

★Division of Allied Health Sciences

Division of Postgraduate and Continuing Education

★School of Music

★School of Nursing

★School of Physical Education

★School of Public and Environmental Affairs

★School of Social Service

★Summer Sessions

★University Division

*Bulletins* for most of the above divisions of the University (marked ★) may be obtained from the Office of Records and Admissions, Student Services Building, Indiana University, Bloomington, Indiana 47401. Other divisions for which *Bulletins* are available should be contacted directly: Indianapolis Law School, 735 West New York Street, Indianapolis, Indiana 46202; Division of General and Technical Studies, 317 East Second Street, Bloomington, Indiana 47401.

Write directly to the individual regional campus for its *Bulletin*.

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

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

**DIVISION OF ALLIED HEALTH SCIENCES  
SCHOOL OF MEDICINE**

**1100 WEST MICHIGAN STREET  
INDIANAPOLIS, INDIANA 46202**

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## INDIANA UNIVERSITY BULLETIN

(OFFICIAL SERIES)

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## Calendar

Indiana University - Purdue University at Indianapolis

1975-76

1976-77

### First Semester

Counseling and Registration begin.....	Aug. 15, F.....	
Classes begin.....	Aug. 20, W.....	Aug. 25, W
Labor Day holiday.....	Sept. 1, M.....	Sept. 6, M
Thanksgiving recess.....	Nov. 26, W.....	Nov. 24, W
Classes resume.....	Dec. 1, M.....	Nov. 29, M
Classes end.....	Dec. 8, M.....	Dec. 13, M
Exams begin.....	Dec. 9, T.....	Dec. 14, T
Exams end.....	Dec. 15, M.....	Dec. 20, M

### Second Semester

Counseling and Registration begin.....	Jan. 2, F.....	
Classes begin.....	Jan. 8, Th.....	Jan. 13, Th
Spring recess.....	Mar. 1, M.....	Mar. 7, M
Classes resume.....	Mar. 8, M.....	Mar. 14, M
Classes end.....	Apr. 28, W.....	May 4, W
Exams begin.....	Apr. 29, Th.....	May 5, Th
Exams end.....	May 5, W.....	May 11, W

1976

1977

### Summer Session I\*

Classes begin.....	May 10, M.....	May 16, M
Memorial Day holiday.....	May 31, M.....	May 30, M
Classes end.....	June 21, M.....	June 27, M

### Summer Session II\*

Classes begin.....	July 6, T.....	July 5, T
Classes end.....	Aug. 14, S.....	Aug. 15, M

\* Tentative.

# Indiana University

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Founded in 1820, only four years after Indiana achieved statehood, Indiana University is one of the oldest state universities west of the Alleghenies. It has consistently met its original commitment of providing a statewide system of public higher education. Among the first American universities to admit women on an equal standing with men, I.U. also provides its services without regard to race, creed, or color.

Indiana University is ranked ninth largest in the nation with an enrollment totaling 70,000 on its eight state campuses and including students from all fifty states and many foreign countries. With a faculty exceeding 3,000, its more than 100 departments offer 5,000 courses of instruction.

The major divisions of Indiana University are the Bloomington campus (the largest and oldest), Indiana University - Purdue University at Indianapolis (IUPUI), and six other strategically located campuses at population centers over the state.

## The Bloomington Campus

College of Arts and Sciences (includes the Division of Optometry)

School of Business

School of Education

School of Health, Physical Education, and Recreation

School of Law

School of Music

School of Public and Environmental Affairs

Graduate School

Graduate Library School

University (Freshman) Division

Division of Continuing Education

## Indiana University - Purdue University at Indianapolis

Indiana University Medical Center

Indiana University School of Medicine

Indiana University School of Medicine—Division of Allied Health Sciences

Indiana University School of Dentistry

Indiana University School of Nursing

Indiana University Indianapolis Law School

Indiana University School of Social Service

Herron School of Art at IUPUI

IUPUI School of Liberal Arts

IUPUI School of Science

IUPUI School of Engineering and Technology

IUPUI School of Physical Education (formerly Normal College of the American Gymnastic Union)

IUPUI Division of Business Administration

IUPUI Division of Education

Indiana University School of Public and Environmental Affairs—IUPUI Division

IUPUI Division of Continuing Education

IUPUI University Division

## The Regional Campuses

Indiana University East (Richmond)

Indiana University at Fort Wayne

Indiana University at Kokomo

Indiana University Northwest (Gary)

Indiana University at South Bend

Indiana University Southeast (New Albany)

These campuses grant degrees in the Arts and Sciences, Education, and Business. Through the Division of General and Technical Studies, associate degrees are awarded, as at Bloomington and IUPUI, in a number of allied health areas.

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

The Indiana University library system contains more than 4,500,000 items. Comprising this system are the University Library; the Lilly Library, with its valuable collections of rare books and manuscripts; libraries at each of the regional campuses; school and departmental libraries; and collections at housing units in the Halls of Residence.

## ADMISSION TO THE UNIVERSITY

*Freshmen* are expected to have graduated from high school and to have completed four units (years) of English and nine or more units in some combination of foreign language, mathematics, science, and social studies. Students for Arts and Sciences, Nursing, and Allied Health Sciences should have two or more units each of one foreign language, mathematics, and science. Students for Business and for Arts and Sciences curricula involving mathematics should have two years of algebra plus trigonometry.

*In-state freshmen* are expected to rank in the top half of their class and to have made scores above average for high school seniors on the College Board Scholastic Aptitude Test (SAT) or the American College Test (ACT). The Admissions Committee is authorized to make exceptions and consider unusual skills and qualifications. Adult applicants receive particular consideration.

*Out-of-state freshmen* are expected to rank in the top quarter of their class and to have test scores in the top quarter of high school seniors on the SAT or ACT.

*Transfer applicants* who are residents of Indiana are expected to have cumulative grade indexes of C or higher, at least 2.0 on a 4.0 system.

*Out-of-state transfer applicants* are expected to have a B average or higher.

Applications may be filed after completion of the junior year in high school. Transfer applicants may apply during the school year preceding proposed entry. Closing dates for applications are December 1 for second semester, April 15 for summer sessions, and July 1 for first semester. An application fee of \$15 is required of each applicant who is new to the University. All questions concerning admission should be directed to the Office of Admissions of the campus the student wishes to enter.

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

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

## FEES

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

# **Fee Schedule, 1975-76**

## **FEES SUBJECT TO CHANGE BY ACTION OF THE TRUSTEES OF INDIANA UNIVERSITY**

### **FIRST AND SECOND SEMESTERS**

<b>BLOOMINGTON</b>		<b>Indiana Resident</b>	<b>Nonresident</b>
Undergraduate* (12-17 hours)† .....		\$361/sem.	\$820/sem.
Undergraduate* (1-11 hours) .....		\$ 31/cr. hr.	\$ 69/cr. hr.
Graduate (includes School of Law and Division of Optometry) .....		\$ 31/cr. hr.	\$ 69/cr. hr.
Auditing (no credit) .....		\$ 5 per hour	
Special fees (in addition to basic fees)			
Applied Music† .....		\$35/sem.	
Student teaching .....		\$50	
Late enrollment or re-enrollment .....		\$25	
Special examination .....		\$ 5 to 10	
Bowling, golf, horsemanship .....		(payment made to bowling alley, golf course, or academy for use of facilities)	
Transcripts (after first) .....		\$ 2	
Deposits (to cover loss or breakage)			
ROTC .....		\$10	
Band .....		\$ 5	
Singing Hoosiers .....		\$ 5	
Special Health Service Fee (optional) .....		\$7 or \$15 per semester	
Rentals			
Music instruments .....		Contact School of Music about fees for each hour of daily use per semester. Rates vary with specific instruments.	
Practice room .....		\$3 a semester for each hour of daily use	
(above practice room rental not charged if applied music fee is paid)			
Lockers			
Woodburn Hall, Law Building, Ballantine Hall, Music Building .....		\$ 5 deposit, \$1-\$1.50 rent deducted a semester	
HPER Building (for persons not enrolled in HPER courses for credit) .....		\$ 3 per semester	
Independent Study (Correspondence)			
Residents and Nonresidents			
Undergraduate Courses .....		\$21 per credit hour	
Graduate Courses .....		\$26 per credit hour	
<b>INDIANAPOLIS</b>		<b>Indiana Resident</b>	<b>Nonresident</b>
Undergraduate   .....		\$ 21/cr. hr.	\$ 42/cr. hr.
Graduate   .....		\$ 26/cr. hr.	\$ 52/cr. hr.
Medicine .....		\$525/sem.	\$1,100/sem.
Dentistry .....		\$446/sem.	\$ 945/sem.
Law .....		\$ 28/cr. hr.	\$ 65/cr. hr.

\* Includes Evening Division, and Special Students.

† An additional charge is made at the appropriate credit-hour rate for each credit hour taken in excess of 17.

‡ Persons desiring applied music who are not regularly working toward a degree will be charged \$150 per applied music course. Nonmusic majors will be charged \$35 for each applied music course.

|| Includes Downtown Campus, Nursing, Allied Health Sciences, Dental Hygiene, General and Technical Studies, School of Physical Education, Radiologic (X-Ray) Technology, Herron School of Art.

¶ Includes Graduate School, Graduate Library School, School of Social Service, and Graduate Divisions of Education, Business, HPER, Nursing, Dietetics, Dentistry, Radiologic (X-Ray) Technology, Herron School of Art.

**REGIONAL CAMPUSES**

	<b>Indiana Resident</b>	<b>Nonresident</b>
Undergraduate .....	\$ 21/cr. hr.	\$ 42/cr. hr.
Graduate .....	\$ 26/cr. hr.	\$ 52/cr. hr.

**SUMMER SESSIONS (1976)****BLOOMINGTON**

Undergraduate* .....	\$ 31/cr. hr.	\$ 69/cr. hr.
Graduate† .....	\$ 31/cr. hr.	\$ 69/cr. hr.

**OTHER CAMPUSES**

Undergraduate .....	\$ 21/cr. hr.	\$ 42/cr. hr.
Graduate .....	\$ 26/cr. hr.	\$ 52/cr. hr.
Law (Indianapolis) .....	\$ 28/cr. hr.	\$ 65/cr. hr.

**Fee Refund Schedule, 1975-76****FIRST AND SECOND SEMESTERS****BLOOMINGTON**

*When a student withdraws from a course or courses, a refund of fees paid will be for each source as follows:*

	<b>Refund for Withdrawal</b>
First week of classes or through Drop and Add Day .....	100%
Second and third weeks .....	50% or all except \$50, whichever is larger
Thereafter .....	none

NOTE: If a student paying a flat fee for 12-17 credit hours makes a partial withdrawal, no refund will be made if the number of hours retained totals twelve or more. If the total retained is less than twelve, the number of hours for which a refund will be made will be determined by subtracting the number of hours retained from twelve (e.g., if a student enrolled in 14 hours withdraws from 6 hours and retains 8 hours, the refund schedule will apply for  $12 - 8 = 4$  hours).

**IUPUI AND REGIONAL CAMPUSES**

First week .....	100%
Second week .....	60%
Third week .....	40%
Fourth week .....	20%
Thereafter .....	none

**SUMMER SESSIONS (1976)****BLOOMINGTON****For Intensive Sessions (courses 13 class days in duration)**

Withdrawal before second class .....	100%
Withdrawal before third class .....	50%
Thereafter .....	none

**For Those Courses Which Are Six or Eight Weeks in Duration**

	<b>Refund for Withdrawal</b>
First week of classes or through Drop and Add Day .....	100%
Second week .....	50% or all except \$50, whichever is larger
Thereafter .....	none

**IUPUI AND REGIONAL CAMPUSES**

First week .....	100%
Second week .....	40%
Thereafter .....	none

\* Includes Evening Division and Special Students.

† Includes School of Law and Division of Optometry.

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

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

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

1. "Residence" as the term, or any of its variations (e.g., "resided"), as used in the context of these Rules, means the place where an individual has his or her permanent home, at which he or she remains when not called elsewhere for labor, studies, or other special or temporary purposes, and to which he or she returns in seasons of repose. It is the place a person has voluntarily fixed as a permanent habitation for himself or herself with an intent to remain in such place for an indefinite period. A person at any one time has but one residence, and a residence cannot be lost until another is gained.
  - (a) A person entering the state from another state or country does not at that time acquire residence for the purpose of these Rules, but, except as provided in Rule 2(c), such person must be a resident for twelve (12) months in order to qualify as a resident student for fee purposes.
  - (b) Physical presence in Indiana *for the predominant purpose* of attending a college, university, or other institution of higher education, shall not be counted in determining the twelve (12) month period of residence; nor shall absence from Indiana for such purpose deprive a person of resident student status.
2. A person shall be classified as a "resident student" if he or she has continuously resided in Indiana for at least twelve (12) consecutive months immediately preceding the first scheduled day of classes of the semester or other session in which the individual registers in the University, subject to the exception in (c) below.
  - (a) The residence of an unemancipated person under 21 years of age follows that of the parents or of a legal guardian who has actual custody of such person or administers the property of such person. In the case of divorce or separation, if either parent meets the residence requirements, such person will be considered a resident.
  - (b) If such person comes from another state or country for the predominant purpose of attending the University, he or she shall not be admitted to resident student status upon the basis of the residence of a guardian in fact, except upon appeal to the Standing Committee on Residence in each case.
  - (c) Such person may be classified as a resident student without meeting the twelve (12) month residence requirement within Indiana if his or her presence in Indiana results from the establishment by his or her parents of their residence within the state and if he or she proves that the move was predominantly for reasons other than to enable such person to become entitled to the status of "resident student."
  - (d) When it shall appear that the parents of a person properly classified as a "resident student" under subparagraph (c) above have removed their residence from Indiana, such person shall then be reclassified to the status of nonresident; provided, that no such reclassification shall be effective until the beginning of a semester next following such removal.
  - (e) A person once properly classified as a resident student shall be deemed to remain a resident student so long as remaining continuously enrolled in the University until such person's degree shall have been earned, subject to the provisions of subparagraph (d) above.
3. The foreign citizenship of a person shall not be a factor in determining resident student status if such person has legal capacity to remain permanently in the United States.
4. A person classified as a nonresident student may show that he or she is exempt from paying the nonresident fee by clear and convincing evidence that he or she has been a resident (see Rule 1 above) of Indiana for the twelve (12) months prior to the first scheduled day of classes of the semester in which his or her fee status is to be changed. Such a student will be allowed to present his or her evidence only after the expiration of twelve (12) months from the Residence Qualifying Date, i.e., the date upon which the student commenced the twelve (12) month period for residence. The following factors will be considered relevant in evaluating a requested change in a student's nonresident status and in evaluating



whether his or her physical presence in Indiana is for the predominant purpose of attending a college, university, or other institution of higher education. The existence of one or more of these factors will not require a finding of resident student status, nor shall the nonexistence of one or more require a finding of nonresident student status. All factors will be considered in combination, and ordinarily resident student status will not result from the doing of acts which are required or routinely done by sojourners in the state or which are merely auxiliary to the fulfillment of educational purposes.

- (a) The residence of a student parents or guardians.
  - (b) The situs of the source of the student's income.
  - (c) To whom a student pays his or her taxes, including property taxes.
  - (d) The state in which a student's automobile is registered.
  - (e) The state issuing the student's driver's license.
  - (f) Where the student is registered to vote.
  - (g) The marriage of the student to a resident of Indiana.
  - (h) Ownership of property in Indiana and outside of Indiana.
  - (i) The residence claimed by the student on loan applications, federal income tax returns, and other documents.
  - (j) The place of the student's summer employment, attendance at summer school, or vacation.
  - (k) The student's future plans including committed place of future employment or future studies.
  - (l) Admission to a licensed profession in Indiana.
  - (m) Membership in civic, community, and other organizations in Indiana or elsewhere.
  - (n) All present and intended future connections or contacts outside of Indiana.
  - (o) The facts and documents pertaining to the person's past and existing status as a student.
  - (p) Parents' tax returns and other information, particularly when emancipation is claimed.
5. The fact that a person pays taxes and votes in the state does not in itself establish residence, but will be considered as hereinbefore set forth.
  6. The Registrar or the person fulfilling those duties on each campus shall classify each student as resident or nonresident and may require proof of all relevant facts. The burden of proof is upon the student making a claim to a resident student status.
  7. A Standing Committee on Residence shall be appointed by the President of the University and shall include two (2) students from among such as may be nominated by the student body presidents of one or more of the campuses of the University. If fewer than four are nominated, the President may appoint from among students not nominated.
  8. A student who is not satisfied by the determination of the Registrar has the right to lodge a written appeal with the Standing Committee on Residence within 30 days of receipt of written notice of the Registrar's determination, which Committee shall review the appeal in a fair manner and shall afford to the student a personal hearing upon written request. A student may be represented by counsel at such hearing. The Committee shall report its determination to the student in writing. If no appeal is taken within the time provided herein, the decision of the Registrar shall be final and binding.
  9. The Standing Committee on Residence is authorized to classify a student as a resident student, though not meeting the specific requirements herein set forth, if such student's situation presents unusual circumstances and the individual classification is within the general scope of these Rules. The decision of the Committee shall be final and shall be deemed equivalent to a decision of the Trustees of Indiana University.
  10. A student or prospective student who shall knowingly provide false information or shall refuse to provide or shall conceal information for the purpose of improperly achieving resident student status shall be subject to the full range of penalties, including expulsion, provided for by the University, as well as to such other punishment which may be provided for by law.
  11. A student who does not pay additional monies which may be due because of his or her classification as a nonresident student within 30 days after demand, shall thereupon be indefinitely suspended.
  12. A student or prospective student who fails to request resident student status within a particular semester or session and to pursue a timely appeal (see Rule 8) to the Standing Committee on Residence shall be deemed to have waived any alleged overpayment of fees for that semester or session.



13. If any provision of these Rules or the application thereof to any person or circumstance is held invalid, the invalidity does not effect other provisions or applications of these Rules which can be given effect without the invalid provision or application, and to this end the provisions of these Rules are severable.

## 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 accumulative grade-point average of 2.0 (on a 4.0 basis) is necessary. Class standing is based upon credit hours completed: freshman, fewer than 27; sophomore, 27-55; junior, 56-85; senior, 86 or more.

**Semester Load.** A full time undergraduate student is not permitted to enroll in fewer than 12 nor 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.

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

**Petitions for withdrawal after the periods specified above will not be authorized by the dean of a student's school except for urgent reasons related to extended illness or equivalent distress. The desire to avoid a low grade is not an acceptable reason for petitioning for withdrawal from a course.**

If the student withdraws with the dean's consent, his mark in the course shall be W if passing at the time of withdrawal and WF if not passing. The grade will be recorded on the date of withdrawal. Failure to complete a course without authorized withdrawal will result in the grade F.

**Addition of Courses.** No course may be added by undergraduate students after the first two weeks of a semester or one week of 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.

**Grades.** The quality of a student's work is indicated by the following grades.

A—Unusual degree of academic performance.

B—Above-average achievement.

C—Average achievement.

D—Passing work but below desired standards.

F—Failure in a course or failure to complete a course without an authorized withdrawal.

S—Satisfactory. May be used only with approval of the Dean of the College of Arts and Sciences and the Dean of the Faculties. Credits earned with the grade S count toward graduation but are not computed in the grade-point average. The grade S is assigned where credit by examination is awarded by the University when the examination is of passing quality but does not clearly merit an A grade. (See page 13.)

P—Pass. Given to a student who satisfactorily completes a course taken under the pass/fail option described on page 13. A grade of P is not counted in computing the cumulative grade-point average.

W—Withdrawn. Given automatically when the student, with the approval of his academic adviser and his dean, officially withdraws during the first three weeks of

a semester or first two weeks of a summer session. After these deadlines the grade W is given, in the instance of an approved and properly executed withdrawal, only if the student is passing at the time of withdrawal.

**WF—Withdrawn failing.** Given when the student withdraws after three weeks of a semester or two weeks of a summer session, if his work is not passing at the time of withdrawal.

**I—Incomplete.** May be given only when the work of the course is substantially completed and when the student's work is of passing quality. When an Incomplete is assigned, a record must be maintained in the office of the department in which the grade was given. The record will include a statement of the reason for recording the Incomplete and an adequate guide for its removal, with a suggested final grade in the event of the departure or extended absence of the instructor from the campus.

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

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

*The student may not register in a course in which he has a grade of Incomplete.*

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

**Absences from Scheduled Classes.** Illness is usually the only acceptable excuse for absence from class. Other absences must be explained to the satisfaction of the instructor, who will decide whether omitted work may be made up. The names of students who are excessively absent are to be reported by their instructors to the Dean of Students.

**Absences from Final Examinations.** A student who fails to attend the final examination of a course and who has a passing grade up to that time may be given a grade of Incomplete. The Committee on Absence of the Office of the Dean of Students reviews excuses concerning absences from final examinations and informs instructors of its decisions.

## ACADEMIC STANDING

**Candidates for Baccalaureate Degrees in Good Standing.** A student is considered to be a candidate in good standing for an Indiana University baccalaureate degree when he has been regularly admitted by the Office of Records and Admissions, when his academic grade-point average is not less than a C (2.0) average for the last semester's work, and when his cumulative average is not below this same level.

**Academic Probation.** An undergraduate student is on academic probation when his cumulative average is below C (2.0). He is also on probation for the duration of the regular semester following one in which he failed to attain a C average. A graduate student may be placed on probation if his cumulative average falls below B (3.0).

Every student on academic probation must comply with such restrictions as the Office of the Dean of Students or the dean or director of the school or campus in which the student is registered may deem necessary.

**Dismissal.** A student is dismissed from the University when, in the judgment of the Scholarship and Probation Committee, he has ceased to make progress toward his degree. When an undergraduate student has failed to attain a C (2.0) average in any two semesters and when his cumulative average is below C (2.0), he is automatically

considered to be making no progress toward his degree. A graduate student's status is reviewed when he fails to regain a B (3.0) average after being placed on probation.

A student whose record reveals failing, or near-failing, performance in any semester, regardless of his previous cumulative average, or whose cumulative average falls below C (2.0), is always carefully evaluated with a view to possible dismissal.

**Readmission.** The Scholarship and Probation Committee considers petitions for readmission from students who have been dismissed. A student dismissed for the first time may petition for readmission to any division of the University. The Committee may recommend re-entrance without delay if warranted by exceptional circumstances and if it believes the student will make progress toward his degree. A student dismissed for the second time may not be admitted for the next regular semester but is eligible to submit a petition for readmission after a period of at least one regular semester.

In order that petitions for readmission be considered and accepted by the Committee, students eligible to submit them must do so before July 1 for the fall semester, December 1 for the spring semester, and April 15 for the summer sessions.

## SPECIAL OPPORTUNITIES FOR STUDENTS

Indiana University's special programs give the able and motivated student an opportunity to develop his intellectual talents through a flexible curriculum. Special courses for freshmen and sophomores, as well as formal departmental honors programs, challenge the student to employ intellectual independence and resourcefulness. The purpose of these programs is to prepare students both for graduate or professional study and for any aspect of life which follows graduation. It provides the specialized and individual instruction traditionally associated with a small college but supported by the full resources of a distinguished university: libraries, laboratories, an internationally recognized faculty, and a cosmopolitan student body.

**Pass/Fail Option.** Any undergraduate student in good standing (not on probation) may enroll in up to a maximum of eight elective courses to be taken with a grade of P (pass) or F (fail) during the four years of his undergraduate program. The pass/fail option is open for a maximum of two courses per year, including summer sessions. For this option, the year is defined as September 1 to September 1.

In Allied Health Sciences the pass/fail option cannot be applied in required courses.

The School of Health, Physical Education, and Recreation courses M130 and W100 may be elected on a pass/fail basis in addition to two other courses permitted in the first year.

A grade of P is *not* counted in computing the cumulative grade-point average; a grade of F is included. A grade of P cannot be changed subsequently to a grade of A, B, C, or D.

Instructors will not be notified of those registering for this option. The conversion of the instructor's grade into P or F will be made by the Registrar.

**Credit by Examination.** A student may receive credit for certain courses by successful performance on College Board Achievement Tests, College Board Advanced Placement Tests and/or examinations offered by an academic department while at Indiana University. The appropriate department of the University reviews the College Board Advanced Placement Tests in order to make recommendations about advanced standing. A student who believes he is prepared for advanced study or eligible for special credit because of superior preparation or independent study is urged to accelerate his college program in this manner.

Where credit by examination is awarded by the University, that credit will be recorded simply with the grade S unless the examination clearly merits an A grade. Failure to pass the examination carries no penalty. A student may thus graduate early, or he may use the time gained to take courses beyond those ordinarily required for an undergraduate degree.

**The Honors Program.** The Honors Program extends over four years of undergraduate study and leads to a distinctive degree of Bachelor of Arts or Bachelor of Science with Honors. While the University and its undergraduate schools have specified the requirements for graduation of all students, substitutions within the spirit of these requirements may be made to the benefit of the individual superior student. Special faculty counseling is provided to assist the Honors participant in employing his time wisely.

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

### **Overseas Study Programs**

*Indiana University Programs.* Credit earned in overseas study programs sponsored by Indiana University, or participated in by Indiana University on a consortium basis, are considered Indiana University credit and are not transfer credit. Consequently, University scholarships and loans are applicable to fees for these programs. Credit usually satisfies Indiana University degree requirements and meets the senior residence requirement. Programs are not restricted to language majors. Indiana University's programs include academic year programs at Bologna, Hamburg, Jerusalem, Lima, Madrid, Strasbourg, and São Paulo; summer programs in Mexico City and Dijon; the Committee on Institutional Cooperation summer honors program in Mexico City; summer programs in Edinburgh and Bermuda, operated by the Division of Continuing Education; the American University Field Staff Centers in Southeast Asia; teacher training programs in Rennes, Nice, and Seville; the Council on International Educational Exchange Russian language program in Leningrad. The Department of Recreation and Park Administration, in cooperation with the Overseas Study Program and American Universities International Program in Leisure Sciences, sponsors a spring semester study program at the University of Edinburgh, Edinburgh, Scotland. This fully accredited program is available for recreation and park majors only. For further information consult the University Overseas Study Programs Office, Student Services 303, Bloomington campus, or international program coordinators on each I.U. campus.

*Other Study Abroad Programs.* Overseas study programs sponsored by institutions and organizations other than Indiana University are of varying quality. University policy on the acceptability of transfer credit from such programs is as follows:

1. Transfer credit will be granted in accordance with usual Indiana University policy for credit earned in programs administered by a regionally accredited U.S. college or university, or by a foreign institution which is recognized by the Ministry of Education of the country as a university-level institution.
2. Transfer credit will similarly be granted for university-level course work completed at institutions or agencies which have been officially evaluated by Indiana University. (Students are encouraged to consult with the Foreign Admissions Office, Student Services 019, Bloomington campus, to determine which nonsponsored programs have been evaluated by Indiana University.)
3. Transfer credits may in certain cases be granted for university-level course work completed at certain nonaccredited overseas institutions and agencies which have not been evaluated by Indiana University but for which an academic record with grades is issued, but the maximum quantity will be one Indiana University credit for each two semester hours of credit (or the equivalent) appearing on the transcript of the institution or agency. In many cases, despite the issuance of a transcript, no transfer credit will be granted. (Also check with the Foreign Admissions Office for programs in this category.)
4. No credit will be granted for work completed in programs for which no grades or transcripts are issued.

*Other Policies*

1. In all transfer cases, the quantity of credit awarded by Indiana University will never exceed the number of credits which can be earned at an Indiana University campus in the same amount of time.
2. Many courses which are completed in study abroad programs fall into a sequential pattern among Indiana University departmental offerings. Specific examples include language courses at various levels, applied music, music theory, mathematics, and natural sciences. In all cases where sequential-type courses are involved, the respective academic departments may at their discretion require examinations before any transfer credit is granted.
3. In order to avoid misunderstandings, students who plan to participate in overseas study programs which are not sponsored by Indiana University are strongly urged to consult their major department(s) or school before making any commitment.
4. None of the preceding affect in any way the procedures for establishing credit by examination which are outlined in this *Bulletin*.

# Medical Center

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The Medical Center at Indianapolis includes 80 acres and the Schools of Dentistry and Nursing, the School of Medicine and its 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 University Hospital. 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 programs of the health sciences. Students are admitted to all the University hospitals and clinics for training and observation.

## HOUSING AT INDIANAPOLIS

Applications for housing at the Medical Center campus for IUPUI students may be obtained from Phil D. McQuillen, Associate Director of Housing, Third Floor—Single Student Dorm, 1300 West Michigan Street, Indianapolis, Indiana 46202. A small inexpensive picture and a check for the \$25 loss and breakage security deposit must accompany the application. Space assignments are made on the basis of the date the deposit is received. The IUPUI Housing Office, located on the third floor of the Single Student Dorm Building, also maintains a file of *nonapproved* off-campus facilities for single and married persons which must be checked personally by each interested individual for listings that are current for any given date throughout the year. Mrs. Evelyn Badgett will assist students desiring off-campus living facilities. The total number of facilities listed in a city as large as Indianapolis cannot be inspected or checked by University staff members and therefore the listings do not represent *approved* off-campus housing units.

Housing accommodations for unmarried students are located in the Single Student Dorm Building which is adjacent to and connects directly at the north end of the Union Building. (Please Note: These two buildings represent separate operations under separate management responsibilities.) Men are assigned to the first floor (48 beds) and women are assigned to the second, third, fourth, and fifth floors (192 beds). Each double room in the Dorm Building includes two single beds with other items of furniture and furnishings and has good closet and storage space, a telephone, and air conditioning. Central bathrooms are located on each floor. A Cafeteria and a Snack Bar are located in the connecting Union Building. (Cooking is not permitted in the Residence Hall student rooms at the Medical Center.)

In the Single Student Dorm (where residents furnish their own towels, bedspreads, and blankets) the rates for the accommodations are established and are subject to change by action of the Board of Trustees. For the 1974-75 academic year the rate in the double room was established at \$275 per semester per person. The "single rate" in a double room (\$389 per semester) is usually only available during the summer months.

*Unfurnished* apartments at the Medical Center for married students include efficiency and one-bedroom accommodations in the Warthin Apartment Building and two-bedroom metal-sided barrack-type apartments in Winona Village. The rates range from \$80 per month (Winona Village) to \$103 and \$130 per month (1974-75 academic year rate structure). *Furnished* apartments include efficiencies and one-bedroom accommodations in Warthin (\$119 to \$145 per month) and one-bedroom apartments in the Union Building (\$145 per month).

Rates are subject to change for the 1975-76 academic year by action of the Board of Trustees.



## STUDENT ACTIVITIES AT INDIANAPOLIS

**Student Activity Board.** The Student Activity Board is the central student organization at Indiana University - Purdue University at Indianapolis. Its objective is to provide cultural, social, and recreational activities for all students on that campus. The organization is composed of two representatives from each of these twelve divisions or programs: Division of Allied Health Sciences, Downtown Campus, School of Social Service, Herron School of Art, Associate of Arts Degree in Nursing Program, Indianapolis Law School, School of Physical Education, School of Dentistry, School of Medicine, School of Nursing, the Medical Sciences Graduate School, and the 38th Street Campus.

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

The Inner-Varsity Christian Fellowship is an international organization founded in Britain in 1867 for the development of Christian fellowship on university campuses. The Medical Center chapter was organized in September, 1944.

The Newman Club, an organization primarily for Catholic students, has an active chapter on the campus for Medical Center personnel.

**Cultural and Recreational Activities.** 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. Various cultural activities are planned by the Lecture and Convocations Committee of IUPUI.

In addition, the proximity of Bloomington makes possible an evening's entertainment on that campus, where a series of inviting programs of theatre, music, and lectures which the Medical Center student may attend are scheduled. 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.

**Indianapolis.** 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 touring troupes which frequently visit provide a widely varied program of plays. Butler University, Indiana Central College, and Marion College are all located in Indianapolis. Art galleries, libraries, and museums enrich the city. There are ten radio stations, four television studios, and many movie houses to entertain the Indianapolis residents.

## STUDENT SERVICES AT INDIANAPOLIS

**Union Building.** This campus is one of the few medical centers in the country to have its own Union Building. The Union Building provides a variety of activities and services for students, faculty, staff, and guests of the University.

The facilities in the Union Building include: Cafeteria, providing full meals, including breakfast and lunch; Snack Bar, for sandwiches, salads, desserts, and beverages; banquet service, available for special events; and meeting rooms, available for students. Recreational facilities include a swimming pool, table tennis equipment, pocket billiard tables, and nearby tennis courts.

A beauty salon and barber shop are located on the ground floor of the Union. Guest rooms for overnight guests are available for the convenience of persons who will be visiting at the University.

The Bookstore offers all necessary textbooks and supplies for the Schools of Nursing, Medicine, Dentistry, and the Division of Allied Health Sciences. Also available are magazines, novelties, and sundry items.

**Library.** The combined libraries of the Schools of Medicine and Nursing are located in the middle section of the first and basement floors of the Medical Science Building. The Library seats 208 persons, contains 100,123 volumes, and subscribes to 2,361 foreign and domestic periodicals. Most of the journal files are complete, and gaps

are continuously being filled through exchange of duplicate volumes with other medical libraries, gifts, and direct purchases. The current issues of some 400 important periodical titles, as well as reference materials, selected indices, encyclopedias, and dictionaries, are shelved in the reading room. A handbook describing the Library and its services is available upon request. *InU-M* (a computer produced list of serial holdings) and five WKIC indexes to various publications have been compiled by the library staff. The *Library Newsletter* and *List of Selected Acquisitions*, including the supplements to *InU-M*, are distributed bimonthly. Four current alerting services are available to staff and students. A TWX network to 150 communities in Indiana provides rapid library service to physicians in the state. Two on-line computer terminals, State University of New York Biomedical Communication Network at Albany (SUNY) and MEDLARS On-Line (MEDLINE) at the National Library of Medicine, Bethesda, provide rapid access to bibliographic citations for patrons.

**Student Activities.** In the past, each IUPUI unit has had student organizations which functioned on local campuses. In many cases this pattern still prevails with the various student groups continuing to serve the particular needs and interests of their respective student constituencies through local departmental clubs and special interest groups. Student government is also organized on a decentralized pattern with most of the components having a student senate or student council of some sort.

In addition, several campus-wide groups have evolved at IUPUI since the merger. One example is the Student Activities Board which is composed of twenty-two student representatives for all campuses of IUPUI. It carries out programs with broad-based appeal.

**Health Care and Insurance.** The Student-Employee Health Service (SEHS) is located at the Clinical Building at the Medical Center. All full-time IUPUI students are eligible for the program of health care provided by SEHS. In addition, the clinic has available about seventy specialty clinics to which students may be referred. Certain in-patient benefits are also available to students, and prescriptions from SEHS cost a maximum of \$3. The University has also arranged for an optional health insurance plan to supplement the services provided by the SEHS Clinic. All full-time students are eligible to participate in this program through a private insurance carrier. Information is available at registration.

## FINANCIAL AID

General University scholarships and financial aids are available to students in Allied Health Sciences; in addition, there are special scholarships and loans available only to Allied Health Sciences students.

**Scholarships and Grants.** General University scholarships are available to students of high academic achievement. Students whose parents are able to provide limited financial assistance are eligible to be considered for the Educational Opportunity Grant Program or the University Grant Program.

**Loans.** Student loans may be available to students who demonstrate need for financial assistance. The University administers both the National Direct Student Loan Program and the Federally Insured Student Loan Program.

**Applications.** Application and additional information concerning financial aid may be obtained from the Office of Scholarships and Financial Aids, Student Services 208, Indiana University, Bloomington, Indiana 47401; or Cavanaugh Hall 305, 925 West Michigan Street, Indianapolis, Indiana 46202; or at any of the other Indiana University campuses. Incoming freshman students should apply before February 15. Upperclass or continuing students should apply by April 1 for renewal of previous awards and for consideration for new awards.

**Employment.** Any student wishing employment in the various departments of IUPUI may apply to the Personnel Department at the Medical Center.



The federal Work-Study Program expands employment opportunities for students who must finance the major portion of their education. Application for the Work-Study Program is made through the general financial aid application mentioned above.

**Aids to Veterans.** The University is approved under the G.I. Bill and the War Orphans Education Program. Information on financial aid available to veterans under government benefits of public laws may be secured through the Veterans Administration Regional Office, 36 South Pennsylvania Avenue, Indianapolis, Indiana 46204.

Any student who has been a resident of Indiana for one year and whose parent has a service-connected disability or death during World War I or II, the Korean Conflict, or the Vietnam era is eligible for the Child-of-Disabled Veteran Award and is entitled to a partial remission of fees. Application for this award is made through the Office of Scholarships and Financial Aids.

## Division of Allied Health Sciences

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As a part of the School of Medicine, the Division is concerned with the preparation of personnel in health-related areas. 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 Administration, Medical Technology, Occupational Therapy, Physical Therapy, Public Health Dental Hygiene, Public Health Education, and Public Health-Environmental Health (now Environmental Health Sciences). In 1964 the Public Health Administration (now Health Administration) program was approved, and in 1965, the Cytotechnology degree program. Baccalaureate degree programs in Health Occupations Education (co-sponsored by the School of Medicine and Division of Education) and in Radiologic Technology were initiated in 1969.

Also offered are two-year associate degree programs. The first program, Respiratory Therapy, was begun in 1965. In joint sponsorship with the Division of General and Technical Studies, the Division of Allied Health Sciences offers two-year programs in Radiologic Technology (1966), Hospital Dietary Technology (1968), and Occupational Therapy Technology (1970).

In addition to the above degree programs, the Division of Allied Health Sciences offers a certificate program in Nursing Home Administration which was initiated in 1965.

Opportunities for graduate study are also available to allied health professionals both within and outside of the Division. In 1971, a Master of Science in Allied Health Sciences Education was jointly approved by the Division of Education and the School of Medicine to prepare teachers in the allied health professions. In 1972, a Ph.D. program in human motor performance was established for physical therapy graduates in cooperation with the Graduate School and the Department of Physical Education (see description under Graduate Programs).

The Graduate School offers options in the basic sciences to allied health graduates. Other graduate courses and degrees are also available through the Division of Education. Because admission and degree requirements vary, a candidate should communicate with the Division of Allied Health Sciences, 1100 West Michigan Street, Indianapolis, Indiana 46202. Each candidate will be counseled individually through the Division of Allied Health Sciences in cooperation with the appropriate school or division.

**Objectives of the Division of Allied Health Sciences.** The Division of Allied Health Sciences of the Indiana University School of Medicine has adopted the following objectives:

1. To educate and train students enrolled in the several disciplines offered by the Division so they can assume a responsible professional role in the discipline or speciality of their choice.
2. To prepare students to make meaningful contributions toward the prevention of illness and the promotion of health, its maintenance, rehabilitation, and restoration.
3. To stimulate students to think and reason rationally and to become effective contributing members within the framework of programs whose objectives are aimed at community improvement.
4. To provide continuing education for both individuals and disciplines within (the various areas of) allied health.
5. To prepare students to meet all professional specifications established by registration or certification boards, both official and nonofficial.
6. To provide graduate education for allied health graduates which will enable them:  
(a) to acquire a deeper understanding of their professional field; (b) to gain an under-

standing of the educational purposes and processes as they relate to their particular area; (c) to identify problems in the educational and clinical field areas of their allied health specialty and to conduct research in these various areas.

**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 Cytotechnology, Medical Record Administration, Medical Technology, Occupational Therapy, Physical Therapy, Radiologic Technology, and Respiratory Therapy are, in addition, fully approved by the Council on Medical Education of the American Medical Association in collaboration with the appropriate professional organizations.

## ADMISSION

Students seeking admission to the baccalaureate degree programs (4 years) of the Division of Allied Health Sciences must file an "Application for Admission to the Division of Allied Health Sciences" with current academic transcript during the period of September 1 to December 1\* of the year prior to the anticipated entry into the professional field of study in the Division. All completed applications are to be submitted by the applicant to the Office of the Division of Allied Health Sciences, 1100 West Michigan Street, Indianapolis, Indiana 46202.

A student is eligible to be considered for admission when the student's transcript of work completed shows the reasonable probability that the Allied Health Science's Core Curriculum and all prerequisites for the selected professional field of study can be satisfactorily completed prior to the date of the opening of classes of the year for which application is made. To be considered for admission, a student must have at least an accumulative grade-point average of C (2.0).

For admission purposes, consideration is not given for duplicated courses, physical education activity, or military sciences; however, these courses are included in the accumulative grade-point average. The pass/fail option cannot be applied in required courses.

The Division of Allied Health Sciences upholds the University policy on non-discrimination in the admission of students.

**Physical Examination.** A health form will accompany each application. The completed health form should be returned with the application. The health examination must occur within three months of the date of application.

## ACADEMIC INFORMATION

**Grades.** The letter grade codes and their specific definitions which are used by the Division are the same as those utilized by the University Division. Specific information may be found on page 11.

**Academic Probation.** A student is placed on academic probation for the duration of the semester succeeding the one in which he failed to earn a C (2.0) average, except in individual programs which have additional academic standards. Students are informed of these programs' standards upon admission. The student will be removed from probation at the end of the probationary semester providing his accumulative average is satisfactory.

Students who fail to meet satisfactory standards of professional behavior may also be placed on probation. 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 are notified in writing of probationary status. A student who is placed on probation for the

\* Associate degree programs applications deadline is March 1.

above reasons will be removed from this status on the basis of his professional conduct in the time period, not to exceed one semester, subsequent to the initiation of probation.

This student's professional conduct will be evaluated by his immediate faculty and program director, and their report will be reviewed by the Allied Health Council before the probationary period is initiated or rescinded.

**Dismissal.** Specific minimum standards must be met in order to be retained as a candidate for a professional degree. A student in the Division of Allied Health Sciences is dismissed when in the judgment of the Allied Health Academic Appeals Committee and with concurrence of the Allied Health Council, he has ceased to meet the academic and professional standards of his field of study. When a student has failed to attain a C (2.0) average in any two consecutive semesters or has an accumulative average below C (2.0) for two consecutive semesters; when he has failed to make higher than a D (1.0) average in any one semester; or when he has failed to meet the additional specific academic standards of individual programs, he will be dismissed as not making progress toward his degree. The student may be asked to discontinue his field of study when he fails to show aptitude, fails to maintain a satisfactory level of performance or violates the University Code of Student Conduct.

**Readmission.** The Allied Health Academic Appeals Committee in collaboration with the Allied Health Council will consider petitions for readmission from students who have been dismissed. A dismissed student must petition the Academic Appeals Committee within fifteen days of receipt of notification to be considered for readmission. The student who has been dismissed will submit his petition in writing to the Office of the Division of Allied Health Sciences. This petition will state the extenuating circumstances that caused the student to be dismissed and what his intended efforts are in maintaining a satisfactory level of performance during his probationary period, if he is readmitted. The petition will be acted upon within a period of fifteen days following receipt of petition and the petitioner will be notified of the action taken on the petition. If readmitted, a student will be granted one semester of probationary status in which to attain a satisfactory academic and professional level of performance. A dismissed student who does not petition for readmission to the Division of Allied Health Sciences within fifteen days may reapply for the subsequent year. The reapplication will be subject to the recommendation of the Admissions Committee.

The student who voluntarily and temporarily withdraws from a program must arrange for continuation with the individual program director during the semester of departure. If arrangements for continuation are not made, the student must re-apply to the Division of Allied Health Sciences. Admission will be subject to the recommendation of the Admissions Committee.

**Student Responsibility.** Application to and enrollment in the University constitutes the student's commitment to honor and abide by the practices and regulations stated in the University's official announcements, bulletins, handbooks, and other published materials and to conduct himself in a manner that is mature and compatible with the University's function as an institution of higher learning.

## GRADUATION REQUIREMENTS

The Bachelor of Science degree will be conferred by the Indiana University School of Medicine upon persons who have been admitted by the Office of Admissions and have met the following requirements: (1) satisfactory completion of the Core Curriculum of the Division of Allied Health Sciences of the School of Medicine, (2) completion of a minimum of 122 semester hours of academic work including the specific professional requirements for the program pursued, (3) a minimum accumulative average of C (2.0), (4) achievement of the specific minimum academic and professional standards established by each program, and (5) completion of the last 30 semester hours of University work in residence at any Indiana University campus. The Associate in

Science degree will be conferred on two-year graduates of Hospital Dietary Technology, Occupational Therapy Assisting, Radiologic Technology, and Respiratory Therapy Programs.

During the last semester of enrollment before graduation, the student is responsible for submitting an "Intent to Graduate" form obtained from the Office of the Division of Allied Health Sciences confirming that all requirements have been met for the appropriate degree. Degrees are granted in May and August; however, commencement exercises are held only in May. Candidates for degrees in August may participate in the May commencement exercises.

Students participating in graduation ceremonies must do so at the campus at which they were last enrolled.

Distinction is awarded to students at graduation who meet the following criteria: 1) completion of at least 60 semester hours at Indiana University, of which not more than 10 semester hours may be pass/fail, 2) an accumulative grade-point average of 3.5 or above, and 3) class standing in the upper 10 percent of his professional program.

The degree requirements for the graduate program are described on page 47.

## CURRICULUM

The curricular patterns of the Division of Allied Health Sciences vary with the professional fields of study. Curricula include from one to three years of preparatory courses followed by professional studies. As part of the professional studies, all programs require appropriate field experience.

### Allied Health Core Curriculum

†All students must complete the Allied Health Core Curriculum as listed below:

Public Speaking .....	2-3 credits
English Composition .....	2-3 credits
Introductory Sociology .....	3 credits
Introductory Psychology .....	3 credits
College Algebra and Trigonometry .....	3-5 credits
Zoology (Animal Biology) .....	4-5 credits
*Elementary Chemistry (with lab—nonterminal course) ....	4-5 credits

**Prerequisite Requirements.** In addition to the Allied Health Core Curriculum, certain courses are required to complete prerequisite requirements (see specific professional field of study in the program section).

The Division of Allied Health Sciences permits a wide latitude in elective credits. Students should consult individual professional program presentations for suggested electives. The student should also consult the *bulletins* of the College of Arts and Sciences, the Schools of Business and of Education, and of the campus on which he is enrolled.

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\* Students in Medical Technology refer to the Medical Technology Program presentation for specific chemistry requirements.

† Health Occupations Education students are not required to take the Allied Health Core Curriculum unless required to do so by their professional allied health program.

# Directory for the Division of Allied Health Sciences

JACK W. LUKEMEYER, Ph.D., Associate Dean for Allied Health Sciences

## DIVISION OFFICE

Indianapolis ..... Jack Lukemeyer .....264-4702

## CURRICULA

Cytotechnology .....	Nancy Kortright, B.S. ....	264-7602
Health Occupations Education .....	Mary Seibert, M.S. ....	264-8602
Hospital Dietary Technology .....	Arlene Wilson, M.S. ....	264-8461
Medical Record Administration .....	Mary Ann Lacy, M.S. ....	264-7317
Medical Technology .....	Mary Feeley, M.S. ....	264-4076
Medical Transcription Technology .....	Devon Miller, M.S. ....	264-7521
Nursing Home Administration .....	Donald Smith, M.B.A. ....	264-8929
Occupational Therapy .....	Carol Nathan, A.M. ....	264-8006
Occupational Therapy Technology .....	Erna Simek, A.M. ....	264-8006
Physical Therapy .....	Frances Ekstam, M.S. ....	264-8913
Public Health Programs .....	John M. Doty, Ph.D. ....	264-7189
Environmental Health Sciences .....	William A. Oleckno, M.P.H. ....	264-7189
Health Administration .....	John M. Doty, Ph.D. ....	264-7189
Public Health Dental Hygiene .....	Carla J. Totten, B.S. ....	264-7801
Public Health Education .....	John M. Doty, Ph.D. ....	264-7189
Radiologic Technology .....	Emily McClanahan, B.S. ....	264-8277
Respiratory Therapy .....	Joseph Koss, B.S. ....	264-7311

## GRADUATE CURRICULA

Master's Program in Allied Health		
Sciences Education .....	Tali A. Conine, H.S.D. ....	264-8509

# Programs in the 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:

- AHLT A—Cytotechnology
- AHLT B—Health Administration
- AHLT C—Medical Technology
- AHLT D—Public Health Dental Hygiene
- AHLT E—Public Health Education
- AHLT F—Respiratory Therapy
- AHLT H—Environmental Health Sciences
- AHLT M—Medical Record Administration
- AHLT P—Physical Therapy
- AHLT R—Radiologic Technology
- AHLT S—Public Health (General)
- AHLT T—Occupational Therapy
- AHLT W—Coordinated courses
- AHLT Z—Health Occupations Education
- AHLT Z—Master's Program in Allied Health Sciences Education
- T—Hospital Dietary Technology, Medical Record Technology, Radiologic Technology, Occupational Therapy Technology

Required courses are listed for each program (see course listings on pages 49-61 for descriptions of the courses). The abbreviation "P" in the course descriptions refers to course prerequisites; "R" refers to requirements which are suggested as desirable prior to enrollment, but not necessary for enrollment.

## CYTOTECHNOLOGY

**Professor Edwards (Director); Assistant Professor Kortright**

One of the newest specialties in the medical laboratory is cytotechnology: the microscopic study of cells exfoliated and abraded from the body tissues. The cytotechnologist studies various samples of body fluid to detect cellular changes indicative of cancer. In providing a means of early detection, cytology makes possible the early diagnosis of cancer, thereby increasing the chances of a cure.

The cytotechnology student studies the morphology of cells and learns the composition of various smear patterns. The student learns to identify those changes which signal the need for further medical investigation or treatment.

The Cytotechnology Program is designed to give the student a background in biological science, as well as to provide opportunities for a number of elective hours. The fourth year is a full calendar year spent in a combined tutorial-didactic experience in the cytology laboratory. Application to the fourth year must be made by November 30, prior to the senior year. Enrollment is limited, and students should be prepared to elect an alternate program in the Division of Allied Health Sciences or the College of Arts and Sciences.

Students eligible for admission must have completed a total of 90 semester hours including the Allied Health Core Curriculum (page 23), the prerequisites listed below, and electives.

### Prerequisites

Additional Chemistry beyond Core Curriculum (with lab.) .....	4-5 cr.
Human Anatomy—Physiology .....	7-10 cr.
Introduction to Microbiology (with lab.) .....	3-5 cr.
Developmental Anatomy .....	5 cr.
Genetics .....	4-5 cr.

### Electives

The following areas of study are recommended, but in no way considered mandatory or inclusive: foreign language, histology, medical microbiology, parasitology, virology, endocrinology, humanities.

### Professional Program

General Medical Cytology A402 .....	3 cr.
Gynecologic Cytology, Nonmalignant Conditions AHLT A412 .....	3 cr.
Gynecologic Cytology, Malignant Conditions AHLT A422 .....	3 cr.
Techniques in Medical Cytology AHLT A462 .....	2 cr.
Medical Terminology AHLT M330 .....	3 cr.
Cytology of Sputum and Bronchial Secretions AHLT A432 .....	3 cr.
Cytology of Body Fluids AHLT A442 .....	2 cr.
Cytology of Gastric Secretions, Urine, Spinal Fluid, and Other Secretions AHLT A452 .....	2 cr.
Pathology C477 .....	2 cr.
Seminar in Cytology AHLT A470 .....	cr. arr.
Certification Internship AHLT A465 .....	6 cr.

### DENTAL HYGIENE PROGRAMS

The Indiana University School of Dentistry (not Allied Health Sciences) offers *four* dental hygiene programs in the state of Indiana:

Indiana University at Indianapolis  
 Indiana University at Fort Wayne  
 Indiana University at South Bend  
 Indiana State University at Evansville

According to the School of Dentistry's policy, you may apply to any or all of the dental hygiene programs of your choice.

**Freshman Year of College.** A year of prescribed college courses is required before admission to the Dental Hygiene Program. You should write to the office of the dental hygiene program of your choice and request assistance in planning your freshman year. This will assure you that your courses will be comparable to those offered by Indiana University. Your credits will transfer for the courses in which you have earned a "C" (A=4) or better. Transfer students should earn at least a 2.5 grade-point average.

A completed application for admission to the Dental Hygiene Program *does not* indicate that you have been accepted. Formal acceptance letters are mailed from the Dental Hygiene Office, after the Dental Hygiene Admissions Committee has selected the class.

Mrs. Carla J. Totten, Acting Director  
 Dental Hygiene Program, School of Dentistry  
 Indiana University  
 1121 West Michigan Street  
 Indianapolis, Indiana 46202

Mrs. Gloria Huxoll, Supervisor  
 Dental Hygiene Program  
 Indiana University at Fort Wayne  
 2101 Coliseum Boulevard East  
 Fort Wayne, Indiana 46805

Mrs. Bonnie Hamber, Supervisor  
 Dental Hygiene Program  
 Indiana University at South Bend  
 1825 Northside Boulevard  
 South Bend, Indiana 46615

Mrs. Jeanne Bippus, Supervisor  
 Dental Hygiene Program  
 Indiana State University at Evansville  
 Evansville, Indiana 47712



## HEALTH OCCUPATIONS EDUCATION

**Professor Conine; Assistant Professors Feeley, Kehrein, Lewis, Morrow, Seibert (Director)**

This program is designed to prepare qualified teachers for health occupations training programs in community colleges, secondary schools, post-secondary vocational-technical institutes, and hospital based schools. It is open to students who have developed technical competency in one of the health occupations through completion of an accredited or recognized program of training and/or on-the-job experience.

The curriculum is administered jointly by the Division of Allied Health Sciences and the Division of Education and leads to the degree of Bachelor of Science in Health Occupations Education. Basic to the foundation of the curriculum is the belief that the health occupations teacher should be both a professional educator and a competent, experienced technician. Therefore, the program is planned to provide each student with opportunities to develop teaching skills, broaden general education, and advance and update technical competencies. Graduates of the program will be expected to assume responsibilities for planning, organizing, implementing and evaluating health occupations educational programs in their technical areas. In addition, each graduate should be capable of participating in guidance, consultation, and community service.

Specifically, the curriculum is designed to permit students to develop the following competencies:

1. Ability to participate in the formulation and implementation of the purposes and philosophy of the educational program.
2. Ability to identify and clearly define learning outcome or terminal behavior expected in teaching.
3. Skill in structuring learning experiences within the vocational educational unit while the care of the patients/clients is safeguarded.
4. Skill in selecting and using teaching methods and materials appropriate to the level of the learner and in light of the educational objectives.
5. Ability to use appropriate tools, such as observation, conferences, and paper-pencil tests to determine learners' progress.
6. Sensitivity to understanding the principles of human relations, including an awareness of one's own attitudes.

**Admission Requirements.** To be considered for admission to the program, the applicant should submit evidence of certification, registration, or current licensure in a health field by the American Medical Association, American Dental Association, State Board of Nurses' Registration, or other appropriate professional organization. Where certification, registration, or licensure is not available in the health field, competency will be established on the basis of (a) written examination, (b) letters from employers, and (c) oral examination by occupational peers.

**Conditional Admission.** Applicants who are eligible for, but have not yet taken licensure, certification, or registry examinations or graduates of foreign programs may be admitted conditionally.

**Degree Requirements.** A candidate for the Bachelor of Science in Education with a major in Health Occupations Education must meet the following requirements:

1. Qualify for matriculation in the University.
2. Qualify for admission to the program.
3. Remove all departmental conditions or probation.
4. Qualify for admission to the Teacher Education Program (see *Bulletin of the Division of Education*).
5. Complete a minimum of two semester hours of Elementary Composition with a grade of C or better.
6. Complete a minimum of 30 of the last 60 credit hours of work in residence at any Indiana University campus or combination of campuses.

7. Complete 12 semester hours or more in one semester on a single campus, or two 6 semester hour summer sessions. The 6 semester hours must be taken in a continuous calendar period, but may consist of two separate courses taken in sequence with no calendar break between the two. Student teaching must be supervised through the IUPUI campus and does not apply toward fulfilling this requirement.

8. Obtain an average of C or better in all work taken at Indiana University, in all work taken in the Teaching Area Major, and in all courses taken that have an education prefix.

9. Complete a total of 124 semester hours of academic credit, including 35 semester hours of junior and senior courses (courses numbered higher than 299) distributed as described below.

**General Education.** The 50 credits needed to meet this requirement must include 16 semester hours in the Humanities; 14 semester hours in the Social and Behavioral Sciences; and 14 hours in the Life and Physical Sciences. Students may select courses accordingly from the following areas of study:

*Humanities:* (16 cr.) Afro-American Studies, Classics, Comparative Literature, English, Fine Arts, Folklore, Foreign Language, Philosophy, Religion, Speech, Theatre and Drama, Musicology and Music History.

*Social and Behavioral Sciences:* (14 cr.) Anthropology, Economics, History, Geography, Linguistics, Political Science, Psychology, and Sociology.

*Life and Physical Sciences:* (14 cr.) Anatomy, Biology, Botany, Chemistry, Geology, Mathematics, Microbiology, Physical Geography, Physics, Physiology, Zoology.

**Teaching Area Major.** Students must select additional courses in the area of their technical specialty or in areas which support, compliment, or extend their technical preparation if they lack 52 semester hours of earned credit in their technical area. Thirty (30) semester hours of technical specialty course credit may be awarded on the basis of prior certification, licensure, or registration in a health occupations specialty as described in the admission requirements. An additional ten (10) semester hours may be granted for completion of a minimum of three years validated occupational experience in the health occupations specialty.

Supplemental courses available to Radiologic Technology majors:

Radiographic Correlation I	AHLT R405	.....	cr. arr.
Radiographic Correlation II	AHLT R406	.....	cr. arr.
<b>Electives</b>			
Workshop in Health Occupations	AHLT Z490	.....	cr. arr.
Cooperative Clinical Education in Health Occupations Programs	AHLT Z530	.....	3 cr.

**Professional Teacher Education.** (Minimum 22 credits) Required courses.

Introduction to Teaching F100 or Examining Self as Teacher F200	.....	3 cr.
Human Development and Learning P280	.....	5 cr.
Methods of Teaching in Health Occupations Education M477	.....	3-5 cr.
Principles and Purposes of Health Occupations in Vocational Programs S497	.....	3 cr.
Student Teaching in Health Occupations Education Programs M486	.....	8 cr.

**Application for Degree.** At least one semester before the semester in which requirements are completed, the student must file an Application for the Bachelor of Science in Education degree. This application may be obtained from and should be returned to the Program Director. The Division of Education will not be responsible for the graduation of students who fail to file the application for the degree.

**Transfer of Credits.** No credit will be allowed at Indiana University for courses the student has received a grade of D or lower at another institution. In any case, only acceptable credit hours acquired at another institution by a student will be transferred to Indiana University. Grade points earned at another school cannot be used with those earned at Indiana University to compute grade point averages.

For further information, write: Miss Mary Lee Seibert, Program Director, Allied Health Building Room 228, Indiana University Medical Center, 1100 West Michigan Street, Indianapolis, Indiana 46202.

## HOSPITAL DIETARY TECHNOLOGY

Associate Professor Wilson (Director); Assistant Professors Boucher, Rickard, Van Ness; Instructor Lifsey

Graduates of approved high schools are eligible for admission to this two-year course. A dietary technician assists a professional dietitian in caring for the nutritional needs of individuals and groups. The program is planned with special emphasis on hospital food service.

Applications for this training program should be filed with the Department of Dietetics at the Indiana University Medical Center, Indianapolis. Classes begin each semester with a limited number of students. Students satisfactorily completing the course receive the Associate in Science degree from the Division of General and Technical Studies of Indiana University.

Inquiries relating to this program should be addressed to Miss Arlene Wilson, Department of Dietetics, Indiana University Medical Center, 1100 West Michigan Street, Indianapolis, Indiana 46202.

### First Year

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Basic English Composition ENG W117 .....	3	Elementary Chemistry I CHEM C101 .....	5
Algebra MATH 111 .....	3	Institution Equipment THDT P103 .....	2
Foods I THDT F101 .....	3	Meal Management THDT W101 .....	3
Nutrition THDT N101 .....	3	Quantity Food Production I THDT P101 ....	3
Introductory Psychology I PSY B104 .....	3	Fundamentals of Speech SPCH C110 .....	3
	15		16

### Second Year

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Sanitation and Safety THDT S101 .....	2	Foods II THDT F102 .....	3
Quantity Food Production II THDT P102 .....	3	Diet Therapy THDT N102 .....	3
Cost Control—Accounting for Dietetics THDT A101 .....	3	Supervisory Techniques THDT J102 .....	3
Food Purchasing THDT P100 .....	3	Methods of Adult Education TED M101 ....	3
Personnel Management THDT J101 .....	3	Contemporary Biology .....	3
Principles of Sociology SOC S161 .....	3		15
	17		

## MEDICAL RECORD ADMINISTRATION

Associate Professor Ridley; Assistant Professors Lacy (Director), Miller, Render, Smith; Instructor Ashton

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

The medical record administration student learns to recognize the organizational structures of health facilities and organizational patterns of medical staffs as operational entities in which medical record systems are developed.

There is an affiliation with Indianapolis area hospitals during the senior year; and at the conclusion of the second semester, the student completes a one-month affiliation which may be assigned outside Indianapolis.

The curriculum of the Medical Record Administration Program is approved by the Council on Medical Education of the American Medical Association in collaboration with the Committee on Education and Registration of the American Medical Record Association.

A student is considered eligible for admission to the professional program under the following conditions:

1. Satisfactory completion of 90-semester hours in the Allied Health Core Curriculum (p. 23), required program prerequisites, and electives. Please refer to the *School of Business Bulletin* for course descriptions of the business courses.

2. Attainment of an accumulative grade-point average of 2.0 or better.

3. Attainment of a grade of "C" or better in anatomy, physiology, computer science, statistics, office management, and personnel management.

Because several prerequisite courses are not currently offered at many campuses students must seek specialized program planning and waivers from the Director of the Medical Record Administration Program (Miss Mary Lacy, Allied Health Building 230, 1100 West Michigan Street, Indianapolis, Indiana 46202. 317-264-7317). These specialized programs may be considered for meeting prerequisites *only* if they have been approved by the Director of the Medical Record Administration Program.

### Prerequisites

Sociology .....	3 cr.
Professional Speaking or Group Methods .....	3 cr.
Logic, Ethics, or Medical Ethics .....	3 cr.
Literature, Philosophy or Art Sequence .....	6 cr.
Classics or Foreign Language .....	2-5 cr.
Human Anatomy (with lab) .....	5 cr.
Human Physiology (with lab) .....	5 cr.
Microbiology .....	3 cr.
Psychology .....	3 cr.
Statistics .....	3 cr.
<i>Office Management</i>	
Administrative Systems .....	3 cr.
Typing (or proficiency) .....	2-3 cr.
Management of Administrative Services .....	3 cr.
Management of Data Systems .....	3 cr.
Employee Training .....	3 cr.
Organizational Behavior and Leadership or Employment Problems and the Law .....	3 cr.
Business Communications .....	3 cr.
Data Processing/Computer Sciences .....	2-5 cr.
Business Law .....	3 cr.

### Electives

The following suggestions for electives are made to aid the student in the courses and in the professional work of medical record administration: finite mathematics (students should check with program adviser to determine need for course), business machines, abnormal psychology, mental hygiene, research methods, computer sciences, management accounting, economics administrative systems applications.

### Professional Program

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Medical Record Science I AHLT M411 ....	5	Medicine and the Law AHLT M445 .....	2
Directed Practice Experience I AHLT M441 ..	4	Clinical Lectures III AHLT W472 .....	2
Medical Terminology AHLT M330 .....	3	Pathology C477 .....	2
Clinical Lectures I AHLT W374 .....	3	Medical Record Science II AHLT M412 ....	5
Hospital Organization and Management AHLT M322 .....	2	Directed Practice Experience II AHLT M442 .....	6
	17		17

### MEDICAL TECHNOLOGY

Professors Biggs, Griep, Nordschow (Director), Smith, Summers; Associate Professors Bonderman, French, Hicks, Moorehead, Oei; Assistant Professors Eitzen, Feeley (Associate Director), Gartner, Glick, Hocker, Jung, Lehman, Proksch, Roberts, Schneider, Young

Medical technology is a growing profession associated with the latest advances in clinical laboratory medicine. The medical technologists perform laboratory tests that reveal the presence of abnormalities of the blood or body tissues by using chemical analyzers, electronic cell counters, and other types of sophisticated laboratory equipment. The first three years of the medical technology curriculum are designed to provide a

broadly based background in chemistry and the biological sciences, as well as opportunity to elect courses from the humanities. The fourth calendar year is spent in a combined didactic and laboratory experience. Applications for the fourth year program at the Medical Center or at any of the affiliated hospital programs must be made during the fall semester of the junior year and are subject to review by the admissions committee of the respective institutions.

In addition to the Allied Health Core Curriculum students must complete the prerequisite courses listed below to be considered eligible for admission to the Medical Technology Program. Students eligible for admission must have completed a total of 90 semester hours including the Allied Health Core Curriculum (page 23), specific program prerequisites, and electives.

Medical technology students must satisfy the Allied Health Core Curriculum chemistry requirement by taking Principles of Chemistry (equivalent to I.U. Chemistry C105).

### Prerequisites

Quantitative Chemistry (with lab) .....	4-5 cr.
Organic Chemistry I (with lab) .....	5 cr.
Organic II Lecture or Chemistry Elective .....	3 cr.
Physics .....	3-5 cr.
Basic Mammalian Physiology .....	5 cr.
Introduction to Microbiology with Laboratory .....	3-5 cr.
Medical Microbiology or Genetics .....	3-4 cr.

### Electives

The following is a list of suggested elective areas. It is not meant to be all inclusive or mandatory in any way: basic human anatomy, anthropology, developmental anatomy, introduction to computers, introductory clinical chemistry, endocrinology, medical terminology, psychology, virology.

### Professional Program

Clinical Chemistry AHLT C406 .....	6 cr.
Hematology AHLT C407 .....	6 cr.
Blood Banking AHLT C408 .....	4 cr.
Serology AHLT C409 .....	2 cr.
Clinical Correlation and Theory AHLT C413 .....	2 cr.
Bacteriology AHLT C411 .....	6 cr.
Parasitology MICR J420 .....	2 cr.
General Externship I AHLT C401 .....	2 cr.
General Externship II AHLT C402 .....	2 cr.
General Externship III AHLT C403 .....	2 cr.

Beginning January 1, 1974, transcripts of the student's course work must be submitted to the Office of the Division of Allied Health Sciences (1100 West Michigan Street, Indianapolis, Indiana 46202), which will verify to the National Accrediting Agency for Clinical Laboratory Sciences that all basic course requirements have been met. Students will not be admitted to the professional year of the Medical Technology Program without this verification.

### Medical Technology Professional Program Affiliates

The Medical Technology Professional Program must be completed at the hospitals affiliated with Indiana University (as listed below). Students may obtain further information from these affiliates:

#### ANDERSON

St. John's Hickey Memorial Hospital

Dr. D. L. Buckles (Director), Mr. M. Gary Schuster (Educational Coordinator)

#### EVANSVILLE

Deaconess Hospital

Fred E. Mills, M.D. (Acting Director), Allan Grubb, Ed.D. (Hospital Education Director)

**FORT WAYNE****Lutheran Hospital**

Dr. Charles Aust (Director), Mrs. Helen Myers (Educational Coordinator)

**Parkview Memorial Hospital**

Dr. Karl Schlademan (Director), Wayne R. Borcharding (Educational Coordinator)

**St. Joseph's Hospital**

Dr. Louis Schnieder (Director), Mr. Larry Schoeff (Educational Coordinator)

**GARY****Gary Methodist Hospital**

Dr. Wei Ping Loh (Director), Jean Holowaty (Educational Coordinator)

**St. Mary Medical Center**

Dr. Earl J. Mason (Director), Miss Rita Blastick (Educational Coordinator)

**INDIANAPOLIS****Medical Center and Marion County General Hospital**

Dr. Carleton Nordschow (Director), Mrs. Mary Feeley (Educational Coordinator)

**Methodist Hospital**

Dr. Lester Hoyt (Director), Mrs. Robienetta Driver (Educational Coordinator)

**St. Francis Hospital (Beech Grove)**

Dr. Robert Costin (Director), Mrs. Bettylyn Hanna (Educational Coordinator)

**St. Vincent Hospital**

Dr. Lee N. Foster (Director), Miss Jane Westerman (Educational Coordinator)

**KOKOMO****Howard Community Hospital and St. Joseph Memorial Hospital**

Dr. Jones, Dr. Harshman, and Mr. Max Rudicel (Co-Directors), Mrs. Constance Wall (Educational Coordinator)

**SOUTH BEND****South Bend Medical Foundation**

Dr. Jene Bennett (Director), Miss Bernadine Hagan (Educational Coordinator)

**MEDICAL TRANSCRIPTION TECHNOLOGY PROGRAM****Assistant Professor Miller (Director) and Staff**

The Medical Transcription Technology Program prepares the student to function as a responsible member of the health care team. The program combines general education with technical skills required in the delivery of health care. The technical training will be given in a large medical complex utilizing its resources. Career opportunities are available in hospitals, physicians' private practice, public and private clinics, laboratories, medical centers, nursing homes, medical research groups, city and state health departments, insurance companies, pharmaceutical houses, private and public health services organizations and other health related areas.

Upon satisfactory completion of the required courses including the Allied Health Core Curriculum, the student is eligible for an Associate of Science degree. A student must maintain a grade of C or better in all required courses.

High school students who anticipate entering college in the Fall should inquire about the curriculum early in their senior year.

**ADMISSION REQUIREMENTS:** Students seeking admission to the program must meet the University and The Division of Allied Health Sciences admission requirements.

### First Year (Medical Center)

<i>First Semester</i>	Credits	<i>Second Semester</i>	Credits
*Beginning Typing II C222 .....	1	*Intermediate Typing C225 .....	2
Principles of Sociology S161 .....	3	Anatomy A210 .....	5
Zoology Z103 .....	5	Intro. to Medical Terminology .....	2
Psychology as a Biological Science .....	3	AHLT MT200 .....	3
Business Communications C204 .....	3	Computer Utilization .....	3
	15	Chemistry (Lecture) C101 .....	3
			15

### Second Year (Medical Center)

<i>First Semester</i>		<i>Second Semester</i>	
Medical Terminology AHLT M330 .....	3	Medical Transcription II AHLT MT205 ....	3
Physiology P204 .....	5	Intr. to Dictating/Transcription Equipment .....	1
Medical Transcription I AHLT MT204 .....	4	and Procedures AHLT MT206 .....	3
Clinical Lectures I AHLT W374 .....	3	Organizational Behavior & Leadership Z301 .....	2
	15	Clinical Lectures III AHLT W472 .....	3
		Math elective .....	3
		Elective .....	3
			15

#### Recommended Electives

Math—Algebra III, Trigonometry 112, Brief Survey of Calculus I M119 or Algebra and Trigonometry 153 or 154  
 Speech—Fundamentals of Speech Communication C110  
 English—Basic English Composition W117  
 Microbiology—Microbiological Cell Biopsy M250  
 School of Medicine—Pathology C477

## NURSING HOME ADMINISTRATION

**Donald E. Smith (Director); R. Michael Henderson (Assistant Director)**

High school graduates or above are eligible for admission to this three semester certificate program. The program meets the minimum requirements for eligibility to sit for the Indiana State Board of Registration and Education for Health Facility Administrators examination for licensure. The three semesters cover the varying fields involved in nursing home or long-term care administration.

Inquiries relating to this program should be addressed to Mr. Donald E. Smith, Director, Nursing Home Administrators Course, Indiana University Medical Center, 1100 West Michigan Street, Indianapolis, Indiana 46202.

#### *First Semester (Topics covered)*

Personnel  
 Rules and Regulations of the Indiana State Board of Health and the Indiana State Health Facilities Licensing Board  
 Liability Insurance  
 Medicare/Medicaid  
 Legal Problems  
 Accounting/Financial Management

#### *Second Semester (Topics covered)*

Nursing Services  
 Medical Records  
 Diets and Food Service  
 Environmental Sanitation  
 Occupational and Physical Therapy  
 Medical, Psychiatric, and Social Aspects of Aging

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\* Beginning Typing II and/or Intermediate Typing will be required depending upon the student's skills. An elective may replace Beginning Typing II.



*Third Semester (Topics covered)*

Maintenance  
Public Relations  
Health Planning  
Dental Care  
Pastoral Care  
Activities  
Volunteer Organization  
Labor Relations  
General Management

## OCCUPATIONAL THERAPY

**Associate Professors Hamant, Nathan (Director), Simek; Assistant Professors, Carl, Farber, Weeks; Instructors Barrett, Fess, Kiel, Potter**

"Occupational therapy is the science of using occupation as a health determinant. It promotes the integration of an individual's bio-psychological systems through selected purposeful occupations. Occupational therapy enhances the ability to perform with satisfaction those tasks and roles essential to productive living."

"Occupation" as used in the above definition refers to the type of activity which occupies the majority of an individual's time. If the individual is a child, the occupation would likely be play or school; if an adult, it would possibly be work or parenthood. Occupational therapy is concerned with assisting an individual in the mastery of the occupational behavior appropriate for each developmental task and the orderly progression from one developmental task to the next throughout the life cycle. Obstacles to successful occupational performance may be due to physical, emotional, or social difficulties. As a member of the health team, the occupational therapist works in collaboration with the physicians, physical and speech therapists, nurses, psychologists, social workers, vocational counselors, and other specialists.

Occupational therapists evaluate each individual and plan a therapeutic activity program in keeping with the team's goals. They work in community and social agencies, community health centers, hospitals and rehabilitation centers, home care programs, penal institutions, school systems, and private practice. Occupational therapy may be indicated for neurological impairment, emotional illness, physical injury, perceptual deficit, birth defect, mental retardation, heart disease, and problems of aging.

Field work experience occurs in relation to professional courses in facilities located in Indiana and many other states. Students cannot be guaranteed placement in any particular geographic location. The student is responsible for transportation to all field experience centers and should be financially prepared to assume living costs at the center.

Graduates of the degree program are eligible for the certification 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.

The curriculum in the Occupational Therapy program is approved and accredited by the American Occupational Therapy Association and the American Medical Association.

In addition to the Allied Health Core Curriculum, students must complete the prerequisite courses listed below in order to be considered eligible for admission to the Occupational Therapy Program. Students eligible for admission must have completed a total of 60 semester hours including the Allied Health Core Curriculum (page 23), specific program prerequisites, and electives.



**Prerequisites**

Psychology Elective .....	3 cr.
Abnormal Psychology .....	3 cr.
Sociology Elective .....	3 cr.
Human Anatomy (with emphasis on the musculo-skeletal system) .....	4-5 cr.
Human Physiology .....	3-5 cr.

**Electives**

The following is a list of suggested elective areas. It is not meant to be all inclusive or mandatory in any way: developmental anatomy, anthropology, business, community health, creative arts, ethics, government, group dynamics, philosophy, psychology, sociology, special education, teaching methods, typing.

**Professional Program****Third Year****(Medical Center)**

(Offered two weeks prior to first semester)

	Credits
Introduction to Occupational Therapy AHLT T203 .....	2
Medical Terminology TAHS T100 .....	1
	<hr/> 3

<i>First Semester</i>	Credits	<i>Second Semester</i>	Credits
Bio-Psycho-Social Development I, AHLT T351 .....	8	Bio-Psycho-Social Development II, AHLT T352 .....	4
Applied Neuroanatomy AHLT W324 .....	3	Theory and Practice I, AHLT T360 .....	4
Practicum I, AHLT T324 .....	1	Pathology C477 .....	2
Electives .....	5	Practicum II, AHLT T325 .....	1
	<hr/> 17	Electives .....	5
			<hr/> 16

**Fourth Year****(Medical Center)**

<i>First Semester</i>	Credits	<i>Second Semester</i>	Credits
Theory and Practice II, AHLT T460 .....	8	Field Work Experience I, AHLT T495 .....	5
Clinical Lectures I, AHLT W374 .....	3	(3-month internship)	
Clinical Lectures II, AHLT W471 .....	3	Field Work Experience II, AHLT T496 .....	5
Application of Clinical Psychiatry AHLT T400 .....	2	(3-month internship)	
Practicum III, AHLT T326 .....	1		<hr/> 10
	<hr/> 17		

**OCCUPATIONAL THERAPY TECHNOLOGY**

This health service program is open to high school graduates who are eligible for admission to Indiana University - Purdue University at Indianapolis. Graduates of this two-year program receive an associate degree in Occupational Therapy Technology, Division of General and Technical Studies of Indiana University. Graduates are also eligible to become certified as Occupational Therapy Assistants by the American Occupational Therapy Association.

The Occupational Therapy Assistant is a technically qualified member of the health team who functions either independently, with collaboration, or with the supervision of a registered occupational therapist. The assistant accepts clinic responsibilities in hospitals, nursing homes, day-care centers, rehabilitation centers, or in those organizations directed to maintain health and socialization of its members.

Field work experience occurs in relation to technical courses in facilities located in Indiana and many other states. Students cannot be guaranteed placement in any particular geographic location. The student is responsible for transportation to all field experience centers and should be financially prepared to assume living costs at the center.

Inquiries relating to this program should be addressed to Mrs. Frank Simek, Director, Associate Degree Curriculum, Occupational Therapy Program, Indiana University Medical Center, 1232 West Michigan Street, Indianapolis, Indiana 46202.

**First Year**

(Offered two weeks prior to first semester)

Introduction to O.T. Theory AHLT T203 .....		2 cr.	
<i>First Semester</i>	Credits	<i>Second Semester</i>	Credits
Sociology S161 .....	3	Sociology S163, S232 or S314 .....	3
Psychology B104 .....	3	Psychology B105 .....	3
English W117 .....	3	Speech C110 .....	3
Medical Terminology TAHS T100 .....	1	Social Agency Practicum TOTT T103 .....	2
Clinical Observation TOTT P200 .....	1	Anatomy & Physiology TAP A100 .....	3
Introduction to O.T. Techniques I, TOTT T101 .....	3	Introduction to O.T. Techniques II, TOTT T102 .....	3
	<hr/> 14		<hr/> 17

**Second Year**

<i>First Semester</i>	Credits	<i>Second Semester</i>	Credits
Psychopathology Psy. N303 .....	2	Bio-Psycho-Social Development II	
Community Practicum AHLT T324 .....	1	AHLT T352 .....	4
Bio-Psycho-Social Development I		Occupational Therapy Techniques	
AHLT T351 .....	8	TOTT T202 .....	4
Clinical Physical Conditions TOTT C101 ....	4	Clinical Psycho-Social Conditions	
	15	TOTT C102 .....	4
		Clinic Management TOTT W101 .....	2
		Field Practicum TOTT T104 .....	2
			16

**Summer Session**

Field Work Experience, TOTT P201 and P202 .....	4
(Two 6 week field work experiences in assigned O.T. clinical areas)	

**PHYSICAL THERAPY**

**Professor Ekstam (Director); Associate Professor Mitchell; Assistant Professors Ladue, Magee, Morrow, Young; Instructors Bowser, Schaefer; Lecturers Hoyermann, Plummer, Waterman**

A physical therapist administers treatment upon referral by a physician; participates in administrative, teaching, and research activities; and provides consultative service. Physical therapy service is utilized in hospitals, outpatient treatment facilities, industrial clinics, governmental and voluntary health agencies, public school systems, and nursing homes.

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, provided he is a United States citizen or has filed a declaration of intent to become a citizen.

The number of admissions each year is necessarily limited, and completion of pre-requisites does not ensure any student acceptance into the program. A student should contact a faculty adviser in the Physical Therapy Program if he has any questions about prerequisite courses. It is also important to show knowledge of the profession when applying for admission.

Clinical education occurs throughout the professional course of study in facilities located in Indiana and other states. The student is responsible for providing transportation to affiliating centers, and should be financially prepared to provide living costs at the centers. Cost of transportation should not exceed \$300.00 and the cost of living accommodations should not exceed \$800.00.

The curriculum in the Physical Therapy Program is accredited by the American Medical Association in collaboration with the American Physical Therapy Association.

A student must complete, in addition to the Core Curriculum on page 23, the courses listed below as prerequisites and electives to total 64 semester hours, exclusive of physical education, military science, kinesiology, and human anatomy and physiology

with a minimum cumulative average of C + or better for all attempted hours. However, since the student's academic record is the major consideration for admission into the program and because of the number of formal applications submitted each year, a cumulative average of B or better is generally more realistic. Students are interviewed and accepted into the program based on their total cumulative record as long as openings in the class exist.

### Prerequisites

Sociology .....	3 cr.
Psychology including course in psychology of childhood .....	6 cr.
Zoology (Comparative Anatomy) .....	4-5 cr.
Chemistry .....	4-5 cr.
Physics .....	3-5 cr.

### Professional Program

The following courses are open only to students enrolled in the Physical Therapy Program.

#### Third Year (Medical Center)

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Anatomy D323 .....	5	Physical Agents AHLT P461 .....	4
Applied Neuroanatomy AHLT W324 .....	3	Rehabilitation Procedures AHLT P481 .....	2
Therapeutic Exercise AHLT P384 .....	4	Physical Tests and Measurements	
Physiology F305 .....	5	AHLT P382 .....	3
Motor Development and Learning		Pathology C477 .....	2
AHLT P300 .....	1	Social-Psychological Aspects of Health	
	18	AHLT W312 .....	2
		Kinesiology AHLT W376 .....	3
			16

#### Summer Session (8 weeks)

Clinical Education I, AHLT P491 .....	2 cr.
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#### Fourth Year

Clinical Lectures I, AHLT W374 .....	3 cr.
Clinical Lectures II, AHLT W471 .....	3 cr.
Applied Neurophysiology AHLT P483 .....	4 cr.
Psychopathology N303 .....	2 cr.
Applied Physical Therapy AHLT P485 .....	2 cr.
Electives .....	3 cr.
Clinical Education II AHLT P492 .....	8 cr.

### PUBLIC HEALTH PROGRAMS

The Department of Preventive Medicine offers four academic programs in the Division of Allied Health Sciences leading to baccalaureate degrees in the professional fields of Environmental Health Sciences, Health Administration, Public Health Dental Hygiene, and Public Health Education. These programs emphasize the preventive aspects needed to improve man's health as well as the environment. These programs prepare the graduate for a wide variety of professions in the public and private sectors.

Samuel H. Hopper, Ph.D., Chairman

John M. Doty, Ph.D., Director of Public Health Programs

### ENVIRONMENTAL HEALTH SCIENCES

**Professor Hopper (Chairman); Assistant Professors Doty (Director), Shupe; Instructors Brittain, Oleckno (Coordinator); Lecturers Dorsey, Fisher, Truman**

Environmental health is an interdisciplinary science relying heavily on the application of principles derived from the biological and physical sciences. In practice it has a threefold purpose: (1) the control of man's physical surroundings so that hazards

arising from faulty or inadequate environmental conditions do not place man's health and well-being in jeopardy; (2) the correction of unhealthful conditions as they pertain to water supplies, waste water treatment, air and water pollution, disposal of solid wastes, food safety, occupational hazards, housing and shelter, and the control of disease vectors. Hand in hand with these activities are the preservation and restoration of natural resources and the enhancement of surroundings which improve the quality of living; (3) the promotion of health and well-being through the dissemination of knowledge among the general public and through the enforcement of laws, regulations, and standards pertinent to those factors which control pollution and minimize or eliminate insanitary conditions.

Within the last decade there has arisen real concern within many segments of our society for more meaningful action to curtail the several kinds of pollution which have health, economic, and ecological implications. We face serious consequences in the years ahead unless the environment is given a high priority with well-executed steps taken to protect it.

The student who enters this major will be graduated as an environmental health scientist and will receive a Bachelor of Science degree from the School of Medicine. Upon graduation he becomes eligible under Indiana law to be registered as a professional sanitarian in this speciality. Further, he becomes eligible for employment with federal, state, and local agencies whose work involves health promotion and environmental control. Additionally, employment is available in industry and commerce. Graduate training for advanced degrees is available at some nineteen graduate schools, of public health. In-service training in several speciality areas is offered by a number of state and federal agencies. Employment opportunities are good.

In addition to the Allied Health Core Curriculum students must complete the prerequisite courses listed below to be considered eligible for admission to the Environmental Health Program. Students eligible for admission must have completed a total of 60 semester hours including the Allied Health Core Curriculum (page 23), specific program prerequisites, and electives.

NOTE: Field trips and practical field training are required parts of the professional curriculum and students are advised that they must bear the costs associated with these activities.

### Prerequisites

Prerequisite courses listed below are in addition to the Allied Health Core Curriculum.

1. One 3-credit-hour course from the following:  
Business Communications (200-level)  
Business and Professional Speaking (200-level)  
Technical Report Writing (200-level)  
Business Writing for Technicians (200-level)
2. Introduction to American Politics (3 cr.)
3. One 3-credit-hour course from the following:  
Society and the Individual (200-level) (3 cr.)  
Current Social Issues and Public Policy (200-level) (3 cr.)  
Principles of Mental Health (3 cr.)  
Contemporary Political Problems (3 cr.)  
Introduction to Human Geography (3 cr.)
4. Basic Mammalian Physiology (5 cr.)
5. Introduction to Microbiology (with lab) (5 cr.)
6. Chemistry (with lab) (5 cr.) continuation of chemistry sequence started in Allied Health Core Curriculum
7. Introduction to Computer Programming (3 cr.)
8. Introduction to Statistics (3 cr.)
9. Physics (6 cr.)

### Electives

Suggested electives: any credited course approved by the program counselor. The recommended courses which follow are not inclusive or mandatory, but are listed merely as suggestions. (3-6 credit hours depending upon mathematics course)  
Introduction to Scientific Reasoning (3 cr.)  
Physical Systems of the Environment (3 cr.)  
Earth Science: Materials and Processes (3 cr.)

**Professional Program (Junior and Senior)**

Upon completion of the preprofessional courses (approximately 60-65 hours), the student will continue his studies in the School of Medicine, Indianapolis, if he is accepted into the program. Admission standards are those stated for Allied Health Science.

NOTE: Field trips and practical field training are required parts of the professional curriculum and students are advised that they must bear the costs associated with these activities.

**Third Year**  
**(Medical Center)**

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Environmental Issues AHLT H321 .....	3	Industrial Health AHLT H450 .....	3
Water Supply and Wastewater Treatment I AHLT H432 .....	4	Air Pollution and Control AHLT H451 .....	3
Food Technology and Control AHLT H428 .....	3	Environmental Health Instrumentation II AHLT H467 .....	3
Epidemiology AHLT H422 .....	3	Environmental Health Functions AHLT H421 .....	3
Environmental Health Instrumentation I AHLT H460 .....	3	Environmental Health Practicum I AHLT H465 .....	3
	16		15

**Fourth Year**

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Solid Waste Management AHLT H452 .....	2	Parasitology and Entomology AHLT H423 .....	3
Community Health Organization and Administration AHLT H401 .....	3	Health Education Methods AHLT E443 .....	3
Urban Politics Y308 .....	3	Environmental Health Practicum III AHLT H461 .....	3
Radiological Health AHLT H445 .....	3	Urban Sociology S334 .....	3
Environmental Health Seminar AHLT H470 .....	3	State Politics Y306 .....	3
Environmental Health Practicum II AHLT H466 .....	3		15
	16		

**HEALTH ADMINISTRATION**

Associate Professor Ridley; Assistant Professors Doty (Director), Smith; Staff from Division of Business Administration, IUPUI.

There is a challenging future for business-oriented personnel in medical administrative procedures. The concern for health, in its varied aspects, has expanded so rapidly that major policy issues involving budgets, insurance, law, and general management require trained people to assist the physician and the health planner 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 Division of Business Administration, IUPUI, offers a program of study leading to a Bachelor of Science in Health Administration which is granted through the Indiana University School of Medicine. Candidates for this degree must complete two years of preprofessional business and basic science courses as outlined below. The junior and senior years are spent at the Indiana University Medical Center.

## Prerequisites

### *Freshman*

*W117 (W131) Elementary Composition .....	3 cr.
*C110 (S121) Speech .....	3 cr.
*B104 (P101) Psychology .....	3 cr.
*S161 Sociology .....	3 cr.
*Math M118 Finite Math. ....	3 cr.
Math M119 Brief Survey of Calculus .....	3 cr.
*C101 Chemistry .....	5 cr.
*Z103 Animal Biology .....	5 cr.
Elective .....	3 cr.
	<b>31 cr.</b>

### *Sophomore*

Econ. E103 or E201 (Micro-economics) .....	3 cr.
Econ. E104 or E202 (Macro-economics) .....	3 cr.
Bus. A201-A202 Management Accounting .....	6 cr.
Econ. E370 Statistical Theory in Business .....	3 cr.
Bus. L201 or L302 Legal Environment of Business .....	3 cr.
Bus. K201 Computer in Business .....	3 cr.
P204 Physiology or P215 .....	5 cr.
B220 Microbiology .....	3 cr.
Elective .....	3 cr.
	<b>32 cr.</b>

## Professional Program (Junior and Senior)

Upon completion of the preprofessional courses (approximately 60-65 hours), the student will continue study in the School of Medicine, Indianapolis, if accepted into the program. Admission standards are those stated for Allied Health Science.

NOTE: Field trips are required parts of the professional curriculum and students are advised that they must bear the costs associated with these activities.

### Third Year (Medical Center)

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Financial Management Bus. F301 .....	3	Simulation of the Business Enterprise	
Introduction to Marketing Management		Bus. W301 .....	3
Bus. M301 .....	3	Organizational Behavior and Leadership	
Operations Management Bus. P301 .....	3	Bus. Z301 .....	3
Clinical Lectures I, AHLT W374 .....	3	Community Health Organization and	
Social-Psychological Aspects of Health		Administration AHLT H401 .....	3
AHLT W312 .....	2	General Business Concentration, or electives	8
General Business Concentration, or electives	3		<b>17</b>
	<b>17</b>		

### Fourth Year

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Personal Adjustment to Business Bus. X410	1	Clinical Lectures III, AHLT H472 .....	2
Administrative Policy Bus. W410 .....	3	Management in Health Organizations	
Clinical Lectures II, AHLT H490 .....	2	AHLT H421 .....	3
Epidemiology AHLT H422 .....	3	General Business Concentration, or electives	12
Hospital Administration AHLT H402 .....	3		<b>17</b>
General Business Concentration, or electives	3		
	<b>15</b>		

## General Business Concentration

The following courses must be taken to complete the business concentration in the Health Administration program. These courses may be taken during the junior and senior years at Indianapolis.

\*Allied Health Core Curriculum

Intermediate Accounting Bus. A221 .....	3 cr.
Cost Accounting Bus. A325 .....	3 cr.
Life and Health Insurance I, Bus. N310 .....	3 cr.
Office Management Bus. C300 .....	2 cr.
Labor Economics Econ. E340 .....	3 cr.
Marketing Systems Bus. M402 .....	3 cr.
Business Conditions and Public Policy Bus. C409 .....	3 cr.

### Electives

The following courses are recommended as electives. These courses are not inclusive or mandatory, but are listed merely as suggestions.

Introduction to Managerial Economics Bus. G300 .....	3 cr.
Principles of Public Utilities Bus. U300 .....	3 cr.
Personnel Research and Measurement Bus. J444 .....	3 cr.
Motion Study and Work Methods IET 262 .....	3 cr.

## PUBLIC HEALTH DENTAL HYGIENE

Professors Hopper, McDonald, Vaught; Associate Professor Gish; Assistant Professor Emeritus Fisk; Assistant Professors Totten (Acting Director, Dental Hygiene Program), Doty (Director, Public Health Programs); Instructors Brittain, Dahl, DeFrantz, Hefner, Weaver; Lecturer Jones

The dental hygienist is a member of the health team concerned with the prevention of diseases of the mouth. A professional college program prepares the graduate, upon successful passage of a state board examination, to work with members of the dental health team to provide optimum dental care for the public.

Indiana University offers one program leading to an Associate in Science degree and another program leading to a Bachelor of Science degree. While the associate degree is adequate to prepare the dental hygienist to perform the tasks assigned in a private dental office, the baccalaureate degree provides the necessary background for additional responsibilities and professional opportunities. The baccalaureate program is offered to dental hygienists by the Division of Allied Health Sciences of the School of Medicine.

The freshman year may be taken at any accredited college or university, but courses must be comparable to those offered by Indiana University in order to transfer for credit. Applicants should contact the Director of Dental Hygiene, Indiana University School of Dentistry, for a list of courses, before enrolling in the freshman year. The second and third years must be taken in the School of Dentistry at Indianapolis, or another accredited dental hygiene program. The fourth or senior year must be taken in the Division of Allied Health Sciences of the School of Medicine at Indianapolis.

Since each year more qualified applicants apply than can be accepted, only those who show an aptitude for and an interest in a professional career and the ability to pursue academic work at a college level are admitted.

### Fourth Year (Medical Center)

First Semester	Credits	Second Semester	Credits
Statistics AHLT H304 .....	2	Public Health Practice D HYG G999 .....	3
Community Health Education AHLT E442 .....	3	Public Health Field Practice AHLT D465 ..	3
Speech S223 .....	3	Community Dental Hygiene AHLT D405 ..	5
Clinical Supervision AHLT D401* .....	2	School Health Education AHLT E440 .....	3
Abnormal Psychology P324 .....	3	Electives .....	3
Speech Pathology AHLT D403 .....	2		
	15		17

\* Admission by permission of Director of Dental Hygiene.



## PUBLIC HEALTH EDUCATION

**Professor Hopper; Assistant Professor Doty (Director); Instructors Brittain, Yoho; Lecturers Jones, McLelland**

The health educator's major aim is to help people understand their health needs and how to met 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 intelligent choices in their health behavior. He must be well grounded in the biological 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 increase.

There are opportunities to become a health education consultant or specialist in state, county, or city departments of health, in the U.S. Department of Health, Education, and Welfare, or in some professional organizations having interests in this field.

Voluntary health organizations at the local, state, and national levels, such as tuberculosis, cancer, polio, heart, and crippled children's societies, need trained health educators in their programs.

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 on-the-job practical experience with state and local departments of public health.

In addition to the Allied Health Core Curriculum students must complete the prerequisite courses listed below to be considered eligible for admission to the Public Health Education Program. Students eligible for admission must have completed a total of 90 semester hours including the Allied Health Core Curriculum (page 23), specific program prerequisites, and electives.

Because several prerequisite courses are not currently offered at some campuses students must seek specialized program planning and waivers from the Director of the Public Health Education Program (Ball Residence, Room 150A, 1100 West Michigan Street, Indianapolis, Indiana 46202). These specialized programs may be considered for meeting prerequisites *only* if they have been approved by the Director of the Public Health Education Program.

## Prerequisites

Prerequisite courses listed below are in addition to the Allied Health Core Curriculum.

Anthropology A303-A304 .....	6 cr.
Introductory Psychology II P102 .....	3 cr.
Psychology of Motivation P327 .....	3 cr.
Current Social Issues and Public Policy S260 .....	3 cr.
The Community S309 .....	3 cr.
Business and Professional Speaking S223 .....	3 cr.
Introduction to Mass Communication C200 .....	3 cr.
Business Communications C204 .....	3 cr.
Foundations of Broadcasting R204 .....	3 cr.
The Broadcast Program R206 .....	3 cr.
Human Nutrition H231 .....	2 cr.
Introduction to American Politics Y103 .....	3 cr.
Urban Politics Y308 .....	3 cr.
Microbiology M250 and M255 .....	5 cr.
Basic Mammalian Physiology P215 .....	5 cr.
Preparation of Inexpensive Instructional Materials R543 .....	2 cr.

### Electives

Suggested electives (10-12 cr.): any credited course approved by the program counselor. The recommended courses which follow are not inclusive or mandatory, but are listed merely as suggestions.

Population S305 .....	3 cr.
Indiana State Politics Y307 .....	3 cr.
Statistics K300 .....	3 cr.
History .....	3 cr.
Methods in Teaching (any appropriate course in School of Education) .....	3 cr.

### Professional Program (Senior)

Upon completion of the preprofessional courses (90 hours), the student will continue his studies at the School of Medicine, Indianapolis, if he is accepted into the program. Admission standards are those stated for Allied Health Science.

NOTE: Field trips are required parts of the professional curriculum and students are advised that they must bear the costs associated with these activities.

#### Fourth Year (Medical Center)

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Community Health Organization and Administration AHLT H301 .....	3	School Health Education AHLT E440 .....	3
Statistics AHLT H304 .....	2	Public Health Education Methods AHLT E443 .....	3
Environmental Issues AHLT H321 .....	3	Public Health Field Practice AHLT E465 ..	10
Epidemiology AHLT H422 .....	3		16
Speech Pathology AHLT D403 .....	2		
Community Health Education AHLT E442 ..	3		
	16		

### RADIOLOGIC TECHNOLOGY

Professors Franken, Helmen (Director), Hornback, Klatte (Chairman), Wellman; Assistant Professors Anger, Berg, Cockerill, Kavula, Kehrein (Coordinator, Baccalaureate Programs), McClanahan (Educational Coordinator); Instructors Baker, Gladden; Teaching Associates Dreesen, Hoover, Porter

Graduates of approved high schools and college students who are interested in a career in an allied health sciences field are eligible to apply for training in radiologic technology.

Radiology is a science involving the medical use of X-rays, radium, and radioactive isotopes in the diagnosis and treatment of disease. A radiologist is a physician specializing in this science, and a radiologic technologist is the technical assistant to the radiologist.

The curriculum follows a pattern designed to train the technologist to become adept in the performance of any technical-medical radiologic procedure. Courses in radiological principles, technological procedures, clinical application of theory, and general education are included in the curriculum.

Upon successful completion of the program, a student receives the degree Associate of Science in Radiologic Technology from the Division of General and Technical Studies of Indiana University and is eligible to take the Registry examination of the American Registry of Radiologic Technologists to become certified as a Registered Radiologic Technologist (R.T.). Employment opportunities are excellent.

Applications for this program should be requested from Mrs. Emily McClanahan Educational Coordinator, Radiologic Technology Program, Indiana University Medical Center, 1100 West Michigan Street, Indianapolis, Indiana 46202, before January 1. New courses begin each August. Students are selected on the basis of their previous educational qualifications and a personal interview.

**First Year**

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Radiographic Positioning I, TAHS R101 .....	3	Clinical Experience I, TAHS X100 .....	5
Anatomy and Physiology, TAP A100 .....	3	Radiographic Principles II, TAHS R202 .....	3
Medical Terminology, TAHS T100 .....	1	Radiographic Positioning II, TAHS R201 .....	3
Radiographic Orientation, TRAD I100 .....	2	English Composition, Eng. W117 .....	3
Principles of Radiography I, TAHS R102 .....	3		
Physics Applied to Radiology, TPHY P200 .....	2		14
	14		

**Summer Session**

Clinical Experience II, TAHS X101 .....	5
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**Second Year**

<i>First Semester</i>	<i>Credits</i>	<i>Second Semester</i>	<i>Credits</i>
Clinical Experience III, TAHS X200 .....	5	Clinical Experience IV, TAHS X201 .....	5
Radiographic Principles III, TAHS R222 .....	3	Pathology, TAHS M200 .....	2
Radiation Therapy and Nuclear Medicine, TRMN T201 .....	2	Introduction to Sociology, SOC S161 .....	3
Introductory Psychology, PSY B104 .....	3	Elective (Liberal Arts) .....	3
Speech Communication, SPCH C110 .....	3		
	16		13

**Summer Session**

Comprehensive Experience, TAHS X222 .....	4
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**Associate Degree Program for Radiologic Technology**

In addition to the Indiana University Medical Center, associate degree programs in Radiologic Technology are offered at the following campuses of Indiana University. Interested persons may obtain further information from directors listed for each program.

**INDIANAPOLIS**

Methodist Hospital: Dr. George Pratt

**FORT WAYNE**

Lutheran Hospital: Dr. Richard Fox

Parkview Hospital: Dr. Robert Dormire

St. Joseph's Hospital: Dr. Melvin J. Powell

**KOKOMO**

St. Joseph Memorial Hospital: Dr. Miles Sekulich

**NORTHWEST**

Methodist Hospital (Gary): Dr. K. G. Ambrozaites

St. Catherine's Hospital (East Chicago): Dr. Daniel Zeiv

St. Margaret's Hospital (Hammond): Dr. Carl Rosenthal

St. Anthony's Hospital (Michigan City): Dr. George Backer

**SOUTH BEND**

South Bend Memorial Hospital: Dr. Wallace Tirman

**Baccalaureate Programs for Radiologic Technologists**

The objective of the degree program is to provide competent instructors in radiologic technology and highly trained technical and administrative personnel to perform many functions currently the sole responsibility of the radiologist.

Students who have attained a grade point average of at least a 2.5 on a 4.0 scale during the associate program or its equivalent may elect to continue their education toward a baccalaureate degree. The third year is generally spent at the IUPUI campus fulfilling the additional required general education courses (35 credit hours). Various

major options are offered during the fourth year including clinical specialties, nuclear medicine, health occupations educations (26-30 credit hours). All areas are offered on the Medical Center campus correlate classroom and clinical education.

The option to continue at the master's degree level is also available.

## RESPIRATORY THERAPY

Associate Professor LoSasso (Director); Assistant Professor Koss (Co-Director); Instructor Rueckl

Guest Lecturers: Acosta, Bailey, Blythe, Brashear, Brown, Brumbaugh, Cochran, Cockerill, Dunkin, Freeman, Gibbs, Goldstein, Goodrich, Green, Gresham, Hunter, Kletzein, Lloyd, Miller, Moorthy, Nance, L. Ruskowski, Sprinkle, Stoelting, Wilcox, Winter

The Respiratory Therapist is an allied health specialist whose primary concern is to help those patients with deficiencies or abnormalities of the cardiopulmonary system to return to normal homeostasis. This is accomplished through the use of a variety of therapeutic procedures and techniques.

The graduates of the Respiratory Therapy Associate Degree Program are qualified to administer all phases of respiratory therapy including gas and aerosol therapy, positive pressure breathing treatments, chest physiotherapy, continuous ventilatory support and pulmonary rehabilitation. In addition, they are able to perform blood gas analysis, cardiopulmonary resuscitation and pulmonary function studies.

The curriculum is designed to provide a basic understanding of the sciences and disease processes as well as an understanding of the technical equipment and procedures necessary to enable the graduate to function as an integral part of the health care team in meeting the needs of individual patients. Instruction in departmental organization, administration and ethics is provided in order to better prepare the graduate for an active role in departmental supervision. The educational needs of the student are met through learning experiences in the classroom, laboratory and clinical setting.

Graduates of this program are eligible to take the examination given by the National Board of Respiratory Therapists and upon passing, become Registered Respiratory Therapists (ARRT).

The program is approved by the Joint Review Committee for Respiratory Therapy Education, Council on Medical Education of the American Medical Association.

Acceptance to the program is based upon the student's grade point average and the results of a personal interview with the Respiratory Therapy Admissions Committee. The committee will interview applicants in February to help select those who will begin their professional courses the following May. Enrollment is limited, so interested applicants should submit their applications to the Division of Allied Health Sciences before January 1 and should be able to complete all prerequisite courses prior to entry into the professional program in May.

High school students who anticipate entering college in the Fall should inquire about curriculum changes early in their senior year.

For further inquiries contact: Mr. Richard Rueckl, Long Hospital, Room 417, 1100 West Michigan Street, Indianapolis, Indiana 46202.

### Course Outline

#### PREREQUISITES (First Year)

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Anatomy A210 or A215 .....	5	Physiology P204 or P215 .....	5
Physics P100 or P101 .....	5-4	Chemistry C101 (5 cr.) or C101 (2 cr.) & C121 (2 cr.) .....	5
English Composition .....	3	Introductory Psychology .....	3
Algebra and/or Trigonometry .....	3-5	Public Speaking .....	2
	15		15

**PROFESSIONAL PROGRAM (Second Year)**

Summer Session (Medical Center—12 weeks)

	Credits
Respiratory Therapy I AHLT F201 .....	6
Respiratory Therapy Clinical Education I AHLT F211 .....	2
	<hr/> 8

<i>Fall Semester</i>	Credits	<i>Spring Semester</i>	Credits
Microbiology B218 or M250 and M255 .....	5	Pharmacology B216 .....	3
Clinical Lectures AHLT W374 .....	3	Pathology .....	2
Respiratory Therapy II AHLT F202 .....	2	Respiratory Therapy III AHLT F203 .....	2
Respiratory Therapy Clinical Education II AHLT F212 .....	2	Respiratory Therapy Clinical Education III AHLT F213 .....	2
Elective .....	3	Introductory Sociology .....	3
	<hr/> 15	Elective .....	3
			<hr/> 15

**MASTER'S PROGRAM IN ALLIED HEALTH SCIENCES EDUCATION**

**Professors Conine (Chairman), Harshman, Helmen, Nordschow; Associate Professors LoSasso, Mitchell, Nathan, Wilson; Assistant Professors Boundy, Feeley, Dipert, Lacy, Tidd**

This program has been established in response to an increasing demand for qualified educators in allied health fields. Its primary aim is to prepare allied health specialists for teaching in academic, clinical, or laboratory setting. The curriculum is administered jointly by the Division of Allied Health Sciences and the Division of Education and leads to the degree of Master of Science in Education. It is open to students who have earned at least a baccalaureate degree from a nationally accredited institution and are Board certified or are otherwise qualified in one of the professions related to health. The principal career opportunities for the graduates are in colleges and universities, vocational colleges and schools, clinical teaching centers, and programs sponsoring continuing and in-service education in the allied health fields.

The curriculum is focused on independent activity, opportunities for individualized experiences, and in-depth exploration by the student in his field of interest under qualified guidance. It is assumed that the graduate's function as an educator will not be limited to teaching in the classroom, clinic, or laboratory. The graduate will be and should be expected to take part in shaping educational philosophy and in assuming responsibility within the community, his profession, and his employing institution. Therefore, the program provides formal and informal experiences for the student in both out-of-classroom and in-classroom functions of a teacher, as well as advanced education in the content area of his allied health specialty.

More specifically, the curriculum is designed so that the student achieves the following objectives:

1. Understands the purposes, functions, and structure of professional education within the context of American higher education.
2. Develops ability to assume the faculty role within an educational setting with the responsibilities of teaching, consultation, service, and research.
3. Comprehends and values a sound rationale for curricular planning, implementation, and evaluation.
4. Promotes and insures effective teaching-learning process on both group and individual basis.
5. Develops skill in establishing positive interpersonal relationships with students and faculty.
6. Strengthens his professional competency.

**Specialization Areas.** The Master of Science program is represented by the following specialization areas providing both education and service at the Indiana University Medical Center complex.

Cytotechnology	Occupational Therapy
Dental Hygiene	Physical Therapy
Dietetics	Radiologic Technology
Medical Records	Respiratory Therapy
Medical Technology	

**Admission Requirements.** Applicants must meet the general requirements for unconditional admission to graduate study and the specific requirements outlined below:

1. Satisfactory completion of an approved allied health science program.
2. A grade-point average of B (3.0) or better in the professional courses.

A student lacking one or more of the above requirements may apply for admission. His record will then be evaluated for eligibility for admission on either a conditional or probationary basis.

**Conditional Admission.** An applicant who has not yet completed a baccalaureate or certificate program in an allied health field or its equivalent, or graduates of foreign programs may be admitted conditionally.

**Probationary Admission.** An applicant whose grade-point average in his undergraduate allied health courses is less than B (3.0) may submit the Verbal and Quantitative scores from the Graduate Record Examination (G.R.E.). If his G.R.E. scores indicate greater potential than his grades suggest, he may be considered for admission on a probationary basis.

**Degree Requirements.** A candidate for the Master of Science in Education with a major in Allied Health Sciences Education must hold a baccalaureate degree and an appropriate professional certificate or license in one of the allied health fields. In addition he must: (1) remove all departmental conditions or probation, (2) achieve a cumulative grade-point average of B (3.0) or above in all courses, and (3) complete a minimum of 36 semester hours without a thesis, or 30 semester hours with a thesis as outlined below.

#### *Course Requirements (15 credits or more)*

One course selected from the following:

History of Education in Western Civilization H503 .....	3 cr.
Historical Foundations of American Education H504 .....	3 cr.
Education and Social Issues H520 .....	3 cr.
Philosophy of Education H530 .....	3 cr.
Reflective Thinking H538 .....	3 cr.
Psychology in Teaching P510 .....	3 cr.
Introduction to Scientific Inquiry T501 .....	3 cr.
Curriculum and Instruction in AHS T525 .....	3 cr.
Practicum in Teaching T695 .....	3 cr.
Research in Allied Health Science Z590 .....	3 cr.
or	
Master's Thesis T599 .....	6 cr.

#### *Electives (12 or more credits)*

Sufficient additional graduate courses to provide intensive study in an area related to an allied health field. At least 9 semester hours of graduate credit must be taken in schools and departments other than Education. Suggested areas of concentrated study are administration, basic medical sciences, biochemistry, biomechanics, counseling, cytogenetics, kinesiology, microbiology, psychology, public health, sociology, special education, or toxicology (as appropriate to the specific professional background of the student).

**Residence Requirements.** The student working toward the M.S. in Education degree will need to take at least 12 semester hours of work on any Indiana University campus. This requirement can be met by one semester of at least 12 semester hours or two summer sessions of at least 6 semester hours each. The 6 semester hours must

be taken in a continuous calendar period but may consist of two separate courses taken in sequence with no calendar break between the two.

All work to be applied toward the degree must be completed within a period of six calendar years from the date of admission to the program.

**Thesis Option.** With approval of the adviser, a student may elect to substitute a thesis for the research study.

**Traineeships and Fellowships.** In addition to financial aid offered by national societies and local agencies, a limited number of traineeships for full-time students are available through United States government funds. There are also limited funds in the form of teaching fellowships available through the School of Education, Graduate Division.

**Living Accommodations.** Accommodations for graduate students are available at Indiana University in Bloomington. Limited space is available on the Medical Center campus. The student may choose to make his own housing arrangements in the community.

For full information, contact the University Halls of Residence in Bloomington or Mr. Philip McQuillen at the Medical Center.

**Further Inquiries.**

Direct inquiries to: Dr. Tali A. Conine, Allied Health Sciences, 1100 West Michigan Street, Indianapolis, Indiana 46202.



# Courses Offered, 1975-76

## SCHOOL OF MEDICINE COURSES

Courses in the basic departments of the Indiana University School of Medicine: Anatomy, Microbiology, Pathology, Physiology, and Psychiatry. Enrollment is limited to students in the Allied Health Sciences.

**Anat D323 Anatomy (5 cr.)**

Gross human anatomy for physical and occupational therapy students. Predissected material utilized. Enrollment limited to students in Allied Health Sciences.

**Micr J207 Microbiology for Dental Hygienists (4 cr.)**

Principles and applications of microbiology for dental hygienists. Enrollment limited to students in Allied Health Sciences.

**Micr J420 Parasitology for Medical Technologists (2 cr.)**

Required for medical technologists; laboratory procedures and identification of the larger parasites of man. Enrollment limited to students in Allied Health Sciences.

**Path C477 Pathology (2 cr.)**

Lectures on principles of pathology; study of various diseased body tissues. Enrollment limited to students in Allied Health Sciences.

**Phys F305 Human Physiology (5 cr.)**

For physical and occupational therapy students. Animal and human physiology; neuromuscular systems, respiration, circulation, digestion, metabolism, excretion, and endocrines. Laboratory work concerned with exercises and demonstrations on neurophysiology and the physiology of muscular activity. Enrollment limited to students in Allied Health Sciences.

**Psy N303 Psychopathology (2 cr.)**

Emotional stress and the resultant defense mechanisms; organic brain syndromes, schizophrenic reactions, and psychoneurotic disorders. Lecture and case presentations. Enrollment limited to students in Allied Health Sciences.

**Psy N306 Clinical Psychopathology (1 cr.)**

Clinical aspects of deviant behavior through discussions, films, case studies, and hospital visits. Enrollment limited to students in Allied Health Sciences.

## DIVISION OF ALLIED HEALTH SCIENCES COURSES

**AHLT W312 Social-Psychological Aspects of Health (2 cr.)**

Lectures and discussion concerning the social, psychological, and cultural components associated with the problems of health and illness, and their implications for health care.

**AHLT W324 Applied Neuroanatomy (3 cr.)**

P: Anat. D323 and permission of instructor. Emphasis on structure and gross function of nervous system as a basis for clinical neurology.

**AHLT W374 Clinical Lectures I (3 cr.)**

P: AHLT C477. Lectures in medicine, surgery, and pediatrics.

**AHLT W376 Kinesiology (3 cr.)**

Analysis and synthesis of human motion.

**AHLT W471 Clinical Lectures II (3 cr.)**

P: AHLT D323, AHLT W324, AHLT C477. Lectures and clinical presentation in orthopedics and neurology.

**AHLT W472 Clinical Lectures III (2 cr.)**

Lectures and clinical presentations in dietetics, geriatrics, obstetrics, gynecology, urology, otolaryngology, dermatology, ophthalmology, public health problems, and other pertinent specialties.

## COURSES ARRANGED ALPHABETICALLY BY PROGRAM.

### Cytotechnology

**AHLT W402 General Medical Cytology (3 cr.)**

Basic features of cellular morphology, cellular physiology, and cytogenetics, as related to medical cytology; cancer cells presented through lecture, laboratory study demonstrations.

**AHLT A412 Gynecologic Cytology, Nonmalignant Conditions (3 cr.)**

Cell types encountered in normal individuals; cyclic variations; changes in hormonal dysfunction, inflammatory changes.

**AHLT A422 Gynecologic Cytology, Malignant Conditions (3 cr.)**

Study of cancer cells of different types and arising in several sites. Course enables student to recognize sources and type of lesion from appearance of exfoliated cells.

**AHLT A432 Cytology of Sputum and Bronchial Secretions (3 cr.)**

Systematic study of normal, nonmalignant, and malignant cells in lower respiratory system.

**AHLT A442 Cytology of Body Fluids (2 cr.)**

Study of cells in effusions associated with nonmalignant and malignant diseases.

**AHLT A452 Cytology of Gastric Secretions, Urine, Spinal Fluid, and Other Secretions (2 cr.)**

Review of cells, malignant and nonmalignant encountered in these sites.

**AHLT A462 Technics in Medical Cytology (2 cr.)**

Fixation and staining procedures, preparation of smears, and cell blocks from fluids and other exfoliates; use of millipore filter technic and fluorescence microscopy.

**AHLT A465 Certification Internship (6 cr.)**

Includes six months of internship required by the Registry. Students gain further practical experience by working with routine cytology material. Conferences and research papers are used to provide additional experience.

**AHLT A470 Seminar in Cytology (cr. arr.)**

Review of current literature pertaining to diagnostic cytology. Reports and discussions by students and faculty.

## Health Occupations Education

For course numbers and descriptions of courses to complete General Education and Teaching Area Major requirements, students should consult individual program presentations in this *Bulletin* and the *bulletins* of other schools and divisions of Indiana University (i.e., College of Arts and Sciences, Education, Business, etc.).

**EDUC F100 Introduction to Teaching (2-3 cr.)**

Function of public education in society and of teaching as a profession. Study of the desired competencies in teaching; evaluation of one's own capacities, interests and abilities; planning of one's professional career.

**EDUC F200 Examining Self as Teacher (3 cr.)**

Designed to help a student make a career decision, better conceptualize the kind of teacher he/she wishes to become, and reconcile any preliminary concerns that may be hampering a personal examination of self as teacher. Students will design a major portion of their work.

**EDUC P280 Human Development and Learning (5 cr.)**

P: Anthro. A104, Psych. P101, or Soc. S161. Development of skills in applying psychological approaches to the study of individuals, groups, and learning phenomena in the school setting. To be taken preceding or as close as possible to the methods course.

**EDUC M477 Methods of Teaching in Health Occupations Education (3-5 cr.)**

Teaching methods and techniques, choices of material and equipment with emphasis on evaluation.

**EDUC S497 Principles and Purposes of Health Occupations in Vocational Programs (3 cr.)**

Historical, legislative and theoretical foundations of health occupations training and service. Emphasis on various curricular organizations.

**EDUC M486 Student Teaching in Health Occupations Education Programs (8 cr.)**

Each student assumes responsibility under a supervising teacher for teaching in a cooperating secondary, post-secondary, or technical program.

**AHLT Z490 Workshop in Health Occupations (cr. arr.)**

Individual and group study of problems or procedures for improving teaching or practice in health occupations.

**AHLT Z530 Cooperative Clinical Education in Health Occupations Programs (3 cr.)**

The relationships between educational institutions and cooperating health service agencies: planning, supervising, coordinating, and evaluating clinical education in health occupations programs. Emphasis upon faculty roles and responsibilities.

## Hospital Dietary Technology

**THDT F101 Foods I (3 cr.)**

Study of principles of food preparation and food service. Experience in the development of high foods standards involving following factors: economy of money, nutritive value, and economy of time. Food habits, social cultures, and aesthetic values are considered throughout.

**THDT N101 Nutrition (3 cr.)**

Study of basic principles of human nutrition; includes physiological functioning of nutrients, their availability, and their relationship to the individual and society.

**THDT P103 Institution Equipment (2 cr.)**

Selection of equipment and principles of layout for food service organizations.

**THDT W101 Meal Management (3 cr.)**

Study of planning and serving meals for hospitalized patients. Emphasis on organization and management of nutritional needs, budget demands, equipment, and time and energy involved.

**THDT P101 Quantity Food Production I (3 cr.)**

Basic principles, standards, and practices involved in large quantity food production.

**THDT S101 Sanitation and Safety (2 cr.)**

Principles of sanitary control. Emphasis on environmental sanitary control in food production and service.

**THDT P102 Quantity Food Production II (3 cr.)**

Application of principles of marketing, menu planning, services to food production management. Opportunity to engage in directing quantity food production in hospital environment. Field trips required. University Adult Hospital used for training center.

**THDT A101 Cost Control—Accounting for Dietetics (3 cr.)**

Principles of accounting applied to food service management. Financial statement analysis, applications to practical situations.

**THDT P100 Food Purchasing (3 cr.)**

Study of methods, policies, problems, and distribution of institutional food purchasing. Storeroom management and control. Consideration of federal and state food laws.

**THDT J101 Personnel Management (3 cr.)**

Study of methods, techniques, and psychology employed in personnel administration from standpoint of manager. Principles applied to standards and controls, personnel problems, supervision and employment practices.

**THDT F102 Foods II (3 cr.)**

Food preparation and food service studied in-depth. Emphasis on high food standards.

**THDT N102 Diet Therapy (3 cr.)**

Study of diet in prevention and treatment of disease. Explanations of principles involved in modification of the normal diet pattern for pathological conditions in children and adults. University Adult Hospital used for training center and modified diet writing experience.

**THDT J102 Supervisory Techniques (3 cr.)**

Principles of effective management with emphasis on techniques of supervision for controlling cost, directing personnel, and managing quality food service operations.

**TED M101 Methods of Adult Education (3 cr.)**

Study of promotion, organization, and teaching methods used with adult groups. Includes surveys made of current trends and present activities in adult education. Work done with educational films, programmed learning, educational TV, and bulletin board design to improve ability to communicate through materials and equipment available in an audio-visual center.

## Medical Record Administration

**AHLT M322 Hospital Organization and Management (2 cr.)**

Orientation to hospital departments; hospital organization; inter- and intra-relationships of hospital and community agencies.

**AHLT M330 Medical Terminology (3 cr.) (2 lectures—2 lab. hrs.)**

Understanding and use of medical vocabulary; emphasis on speaking, reading, and writing skills.

**AHLT M411 Medical Record Science I (5 cr.)**

History, content, form, numbering, filing, securing, preserving, coding, and indexing medical records; hospital medical library and statistics; the professional medical record administrator and her relationship to the health facility, the medical staff, and committees.

**AHLT M412 Medical Record Science II (5 cr.)**

Principles and practices of medical record department administration in the hospital and in specialized health-care facilities.

**AHLT M441 Directed Practice Experience I (4 cr.)**

Supervised practice of medical record department procedures in an organized laboratory; guest lectures, films, and on-site observations and tours.

**AHLT M442 Directed Practice Experience II (6 cr.)**

Rotation and project assignments in medical record departments in Indianapolis area health facilities. Final month is spent in an affiliation in a medical record department in or out of Indianapolis.

**AHLT M445 Medicine and the Law (2 cr.)**

Presentation of concepts of law in medical and/or health-related area as applied to the physician, the hospital, health institutions, the medical record, and the individual health worker.

## Medical Technology

### AHLT C400 Laboratory Practice (Introductory) (1 cr.)

Meetings at intervals, during the early period of training; study of laboratory procedures. Includes technical procedures and orientation. (For continuation, see C480.)

### AHLT C401 General Externship I (2 cr.)

Supervised clinical experience in clinical chemistry. Student rotates through various areas of clinical chemistry.

### AHLT C402 General Externship II (2 cr.)

Supervised clinical experience in clinical hematology. Experience in routine hematology, urinalysis, routine and special coagulation.

### AHLT C403 General Externship III (2 cr.)

Clinical experience in various areas of microbiology. Student rotates through routine, anaerobe, mycology, and parasitology departments.

### AHLT C405 Medical Laboratory Records (½ cr.)

Required by Registry. Proper procedure of reporting laboratory results; method of distribution throughout various phases of work; experience in office, filing, statistical work.

### AHLT C406 Clinical Chemistry (6 cr.)

Principles and applications of clinical chemistry. Methods of instrumental analysis including a variety of automated procedures: electrophoresis, chromatography, radioisotopes, steroid and hormone analysis.

### AHLT C407 Hematology (6 cr.)

Study of functions maturation and morphology of blood cells. Blood cell, platelet, and reticulocyte counting procedures. Experience in study of cellular content of other body fluids. Techniques of sedimentation rates, hematocrits, corpuscular indices, and hemoglobin determination. Routine and special coagulation studies.

### AHLT C408 Blood Banking (4 cr.)

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. Also includes practice in blood donor room procedures. Elementary knowledge of genetics is helpful.

### AHLT C409 Serology (2 cr.)

Lectures and correlated laboratory experience in serology, including preparation of antigens, flocculation tests for syphilis, heterophile antibody tests, C-reactive protein, and rubella testing.

### AHLT C410 Urine Analysis (2 cr.)

Routine urine examination and special tests; laboratory and special lectures.

### AHLT C411 Diagnostic Medical Microbiology (6 cr.)

Diagnostic procedures as aids to diagnosis of human diseases and methods for isolation and identification of microorganisms. Also a study of the fungi which infect humans with emphasis on isolation and identification.

### AHLT C412 Topics in Medical Technology (2 cr.)

Selected topics in medical technology covered by lecture and clinical experience.

### AHLT C413 Clinical Correlation and Theory (2 cr.)

Lectures in theoretical and clinical areas designed to emphasize relationship between laboratory tests and disease states.

### AHLT C414 Honors Course in Medical Technology (cr. arr.)

Each student is to complete a research paper which will require library and laboratory work. The student will be assigned to a faculty adviser in the area in which she/he does the research.

### AHLT C420 Parasitology for Medical Technologists (2 cr.)

Required for medical technologists; laboratory procedures and identification of the larger parasites of man. This course taught at the regional campuses is "equivalent" to J420 as taught in Indianapolis at the Medical Center by the School of Medicine, Department of Microbiology.

### AHLT C431 Hematology I (2 cr.)

Collecting, staining, and counting blood cells; supervised experience with patients. Experience with specimens of spinal fluid, special determinations (platelets, reticulocytes), and pathologic smears.

### AHLT C432 Hematology II (2 cr.)

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.

### AHLT C434 Hematology III (2 cr.)

P: C431, C432. Continuation of practice and experience in hematologic techniques. Individual projects assigned if student is sufficiently advanced.

### AHLT C440 Bacteriology I (2 cr.)

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.

**AHLT C441 Bacteriology II (2 cr.)**

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.

**AHLT C442 Bacteriology III (2 cr.)**

P: C440, C441. Student should be able to handle usual and somewhat unusual hospital bacteriologic and mycologic problems independently.

**AHLT C450 Serology I (2 cr.)**

Flocculation and complement fixation, tests 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.

**AHLT C451 Serology II (2 cr.)**

P: C450. Additional experience (for students with satisfactory proficiency in C450) in adapting complement fixation, agglutination, hemagglutination, precipitin, and flocculation technique to diagnostic procedures.

**AHLT C460 Surgical Pathology I (2 cr.)**

Actual experience with surgical specimens removed from patients in the various hospitals; stresses rapid completion of histologic slides for microscopic examination.

**AHLT C461 Surgical Pathology II (2 cr.)**

P: C460. Additional practice in preparation of histologic slides for microscopic examination. In addition to the hexamatoxylin and eosin stain, a limited number of special techniques are required, including experience with frozen sections.

**AHLT C471 Clinical Chemistry I (2 cr.)**

Training and experience with more frequently used chemistry tests, e.g., determination of sugar and urea nitrogen; automated and manual methods.

**AHLT C472 Clinical Chemistry II (2 cr.)**

P: C471. Limited experience with less frequent special procedures.

**AHLT C473 Clinical Chemistry III (2 cr.)**

P: C471 and C472. Special equipment utilization; preparation and maintenance of stock and solutions.

**AHLT C474 Radioisotopes I (1 cr.)**

Information and techniques applicable to use of radioactive materials in clinical laboratory.

**AHLT C475 Radioisotopes II (2 cr.)**

P: C474. Extended experience and practice with radioactive materials under special supervision. Enrollment must be arranged by conference with faculty.

**AHLT C476 Chemistry IV (2 cr.)**

P: C471, C472. Advanced procedures, method developments, special projects.

**AHLT C477 Chemistry V (2 cr.)**

P: C471, C472. Training and experience in special micro procedures, technical and methodological.

**AHLT C478 Instrumentation (cr. arr.)**

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.

**AHLT C479 Physiological Chemistry for Senior Medical Technologists (4 cr.)**

P: 15 hours in chemistry, one semester of calculus, or consent of instructor. Introduction to carbohydrate, amino-acid, and lipid metabolism. Basic endocrinology: enzymes, biosynthesis of steroid hormones.

**AHLT C480 Clinical Laboratory Diagnosis (1 cr.)**

P: C400. Continuation of material in C400. Ethics, relations with patients, techniques and interpretation of results, special equipment, maintenance of various types of equipment and supplies; miscellaneous subjects.

**AHLT C483 Specialty Externship I (2 cr.)**

Special practice in affiliated institutions, for students with proficiency in required subspecialties. Provides individual electives for special interests.

**AHLT C484 Specialty Externship II (2 cr.)**

Special practice in affiliated institutions, for students with proficiency in required subspecialties. Provides individual electives for special interests.

**AHLT C485 Specialty Externship III (2 cr.)**

Special practice in affiliated institutions, for students with proficiency in required subspecialties. Provides individualized electives for special interests.

**AHLT C489 Basal Metabolic Techniques (1/2 cr.)**

Special theory and techniques. Actual experience with various machines. Successful tracings required.

**AHLT C490 Electrocardiographic Technique (1/2 cr.)**

Lectures on theory and procedures; actual experience with apparatus; successful electrocardiograms required.

**AHLT C491 Blood Bank I (2 cr.)**

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 with techniques for demonstrating them. Elementary knowledge of genetics is helpful.

**AHLT C492 Blood Bank II (2 cr.)**

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.

**AHLT C493 Blood Bank III (2 cr.)**

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.

**Medical Transcription Technology****AHLT MT200 Medical Terminology I (2 cr.)**

Introduction to the language of medicine by study of Greek and Latin word elements including the principles of medical word building for application in oral and written communication.

**AHLT MT204 Medical Transcription I (4 cr.)**

P: Typing C222 and C225 or permission by instructor. Development of fundamental skills in machine transcription including basic formats for various types of medical reports.

**AHLT MT205 Medical Transcription II (3 cr.)**

P: MT200, MT204, and Medical Terminology M330. Development of performance skills with emphasis on production in medical transcription.

**AHLT MT206 Introduction to Dictating/Transcription Equipment and Procedures (1 cr.)**

Introduction to equipment and supplies for a medical word processing center, including layout, selection and evaluation of equipment and application of procedures.

**Nursing Home Administration**

See Health Administration section listed under Public Health Programs for courses B411, B412, B413.

**Occupational Therapy****TAHS T100 Medical Terminology (1 cr.)**

Introduction of origin and derivation of medical words as well as their meaning. Programmed text.

**AHLT T203 Introduction to Occupational Therapy (2 cr.)**

Intense two-week course that examines the concept of occupational therapy as it relates to man's daily life.

**AHLT T324 Practicum I (1 cr.)**

Study and observation in local community facilities.

**AHLT T325 Practicum II (1 cr.)**

Clinical observation and practice of occupational therapy skills and theory presented in Theory and Practice I, AHLT T360, and Theory and Practice II, AHLT T460.

**AHLT T326 Practicum III (1 cr.)**

Continuation of AHLT T325.

**AHLT T351 Bio-Psycho-Social Development I (8 cr.)**

Investigation of dynamic interrelationships among the mind, body, and environment as observed in normal human development. Provides a foundation for the occupational therapy frame of reference through participation in activities and the learning and teaching of skills relevant to each development level.

**AHLT T352 Bio-Psycho-Social Development II (4 cr.)**

Continuation of AHLT T351.

**AHLT T360 Theory and Practice I (4 cr.)**

Theory and practice of occupational therapy intervention. Includes evaluation, prevention, treatment, and administrative concepts.

**AHLT T400 Application of Clinical Psychiatry (2 cr.)**

Review of major psychopathological entities including nomenclature, clinical description of the disorder, underlying psychodynamics, and treatment procedures involved. Role of psychological testing and relationship of occupational therapy to diagnosis and treatment.

**AHLT T453 Therapeutic Techniques Supplement (1-3 cr.)**

Supplemental therapeutic skills to meet the needs of transfer students.

**AHLT T460 Theory and Practice II (8 cr.)**

Continuation of AHLT T360.

AHLT T495 Field Work Experience I (5 cr.)

Three-month internship.

AHLT T496 Field Work Experience II (5 cr.)

Three-month internship.

### Occupational Therapy Technology

TAHS T100 Medical Terminology (1 cr.)

Introduction of origin and derivation of medical words as well as their meaning. Programmed text.

TAP A100 Anatomy and Physiology (3 cr.)

Structures and functions of the human body as related to occupational therapy.

PSY N303 Psychopathology (2 cr.)

Emotional stress and the resultant defense mechanisms; organic brain syndromes, schizophrenic reactions, and psychoneurotic disorders. Lecture and case presentations.

AHLT T203 Introduction to Occupational Therapy Theory (2 cr.)

Intense two-week course that examines the concept of occupational therapy as it relates to man's daily life.

AHLT T324 Community Practicum (1 cr.)

Study and observations in local community facilities.

AHLT T351 Bio-Psycho-Social Development I (8 cr.)

Investigation of dynamic interrelationships among the mind, body, and environment as observed in normal human development. Provides a foundation for the occupational therapy frame of reference through participation in activities and the learning and teaching of skills relevant to each development level.

AHLT T352 Bio-Psycho-Social Development II (4 cr.)

Continuation of AHLT T351.

TOTT T101 Introduction to Occupational Therapy Techniques I (3 cr.)

Exploration of line, color, form, and texture in nature and in two-dimensional and three-dimensional representations as related to the psychological-physiological implications of the creative process, talent, and development of craftsmanship.

TOTT T102 Introduction to Occupational Therapy Techniques II (3 cr.)

Incorporation and adaptation of various art media and minor crafts in the occupational therapy treatment program. Emphasis on developing observational, analytical, and adaptational skills.

TOTT T202 Occupational Therapy Techniques (4 cr.)

Exploration of modalities used by the assistant. Techniques of teaching, activities of daily living and activity media.

TOTT T103 Social Agency Practicum (2 cr.)

Orientation to volunteer services and supervised experience in local community agencies.

TOTT T104 Field Practicum (2 cr.)

Supervised application of techniques and observations in a variety of psycho-social and physical dysfunction facilities.

TOTT C101 Clinical Physical Conditions (4 cr.)

Information and management of clinical physical dysfunction cases referred to occupational therapy. General medical, surgical, neurological, orthopedic.

TOTT C102 Clinical Psycho-Social Conditions (4 cr.)

Information and management of clinical psycho-social dysfunction cases referred to occupational therapy. Neuroses, psychoses, character and personality disorders, developmental defects.

TOTT W101 Clinic Management (2 cr.)

Establishing and operating of clinic, including equipping, maintenance, records, ethical implications, hospital and community relationships.

TOTT P200 Clinical Observation (1 cr.)

Overview of occupational therapy programs in a variety of facilities.

TOTT P201 Field Work Experience I (2 cr.)

Supervised practical application of techniques in a psycho-social or physical dysfunction occupational therapy clinic. Six weeks of continuous participation with personal evaluations. Clinics are local and in adjacent states. During this practicum time students are financially responsible for their own expenses.

TOTT P202 Field Work Experience II (2 cr.)

Continuation of TOTT P201.



## Physical Therapy

### AHLT P300 Motor Development and Learning (1 cr.)

P: P316 and permission of instructor. The development of motor behavior from birth to five years is discussed. Processes underlying motor development are discussed and related to the normal and exceptional child.

### AHLT P382 Tests and Measurements (Physical) (3 cr.)

P: Anatomy D323. Methods of observing, performing, recording, and interpreting test procedures used in physical therapy as a part of the evaluation process. Includes evaluation of mental state and body image, some sensory perception, and motor testing, measurements of joint motion, evaluation of muscle strength through manual tests, posture and flexibility evaluation, measurements of timed vital capacity, and determination of oscillometric indices. Lecture, demonstration, and laboratory.

### AHLT P384 Therapeutic Exercise (4 cr.)

P: Anatomy D323. Principles and procedures of exercise of flexibility, strength, coordination, and ambulation utilizing apparatus as a basis for prevention and modification of disability. Lecture and laboratory.

### AHLT P461 Physical Agents (4 cr.)

P: Anatomy D323. Principles and techniques used in heat transmission, conduction, convection, radiation, and conversion. Includes heat, cold, water, light, massage, diathermy, and electric stimulation. Lecture, demonstration, and laboratory.

### AHLT P481 Rehabilitation Procedures (2 cr.)

P: AHLT D323, AHLT P384, AHLT W376. Principles and procedures of ambulation and activities of daily living utilizing prosthetic and orthotic devices. Lecture and laboratory.

### AHLT P483 Applied Neurophysiology (4 cr.)

P: Physiology F305. Emphasis on neurophysiological concepts for developing treatment procedures in physical therapy; introduction to neuromuscular facilitation procedures. Lecture and laboratory.

### AHLT P485 Applied Physical Therapy (2 cr.)

P: AHLT P491. Lectures and discussion concerning the ethical, legal, teaching, managerial, and consultative aspects of physical therapy practice.

### AHLT P491 Clinical Education I (2 cr.)

P: All third year course offerings in Physical Therapy. Introductory experience in a clinical setting supervised by registered physical therapists in facilities affiliated with the educational program.

### AHLT P492 Clinical Education II (8 cr.)

P: AHLT P491; all first semester senior year course offerings in Physical Therapy. Advanced experience in a clinical setting supervised by registered physical therapists in facilities affiliated with the educational program.

### AHLT Z500 Interdisciplinary Care of the Multihandicapped Child (1-3 cr.)

Designed to develop an in-depth understanding of the functions of an interdisciplinary team in providing and delivering optimum care for multihandicapped children, including the mentally retarded. Lectures, clinical sessions, seminars. By permission of instructor.

## Public Health Programs

### Environmental Health Sciences

#### AHLT H304 Statistics (2 cr.)

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.

#### AHLT H321 Environmental Issues (3 cr.)

Review of current environmental health and pollution problems and their causes such as water and air pollution, energy needs, housing, noise, solid waste; scope and depth of problems with an overview of control techniques and public and private control agencies. Attention to ecological systems and to conservation of resources.

#### AHLT H401 Community Health Organization and Administration (3 cr.)

Historical development and objectives of community health with emphasis on public health; federal, state, and local health agency structure and community interrelationships; legal and financial aspects; professional functions in public health units and community health; program planning, evaluation, and implementation importance in public health services.

#### AHLT H421 Environmental Health Functions (3 cr.)

Study of professional requirements and duties of the environmental health functions within health agencies; consideration of applicable laws and standards in each environmental health function; environmental health program planning, evaluation, implementation, and personnel responsibilities.

#### AHLT H422 Epidemiology (3 cr.)

Causes and behavior of communicable disease with an overview of selected diseases; basic principles of control and prevention. Case method approach with materials developed by NCDC.

**AHLT H423 Parasitology and Entomology (3 cr.)**

Survey of parasites and insects of public health importance affecting man; laboratory exercises in identification of insects; study of control measures and use of modern insecticides; rodents as disease vectors.

**AHLT H428 Food Technology and Control (3 cr.)**

Food and dairy technology and processing methods; field trips to processing plants for observation; legal definitions of various products; control techniques.

**AHLT H432 Water Supply and Wastewater Treatment I (4 cr.)**

Health and ecological premises for water and wastewater treatment; principles of water supply; treatment, distribution and construction; basis for water standards and laboratory examinations; wastewater disposal methods and construction for private installations; institutions, municipalities and industries; water quality control with respect to wastewater pollution.

**AHLT H445 Fundamentals of Radiological Health (3 cr.)**

Structure of the atom, principles of radioactivity; characteristics of ionizing and nonionizing radiation and interactions with radiation; detection and measurement of radiation; radiation dose and exposure; radiation uses and hazards; methods for controlling radiation hazards.

**AHLT H450 Industrial Health (3 cr.)**

Fundamental concepts of industrial and occupational health hazards of a biological, chemical, or physical nature; evaluation of hazards, methods of control and safety protection; Occupational Safety and Health Act Standards.

**AHLT H451 Air Pollution and Control (3 cr.)**

Type, sources, and behavior of air contaminant; economic, social, and health hazard aspect of air pollutants; principles of evaluation, indices of pollution and their worth, control measures, organization and administration of community control programs.

**AHLT H452 Solid Waste Management (2 cr.)**

Types and sources of solid waste; collection methods; disposal techniques: sanitary landfill, incineration, composting, reclaiming or recycling; advantages and disadvantages of each; special wastes handling; operation and management of solid waste programs.

**AHLT H460 Environmental Health Instrumentation I (3 cr.)**

P or concurrent: AHLT H432. Basic physical, chemical, and biological examinations and standards for potable water quality, wastewater treatment determinations, and stream pollution control. Instruction in basic laboratory skills and techniques for performing these examinations.

**AHLT H461 Environmental Health Instrumentation II (3 cr.)**

P or concurrent: AHLT H450 and AHLT H451. Basic physical, chemical, and biological (ergonomic) examinations, used in industrial hygiene and air pollution control.

**AHLT H465 Environmental Health Practicum I (3 cr.)**

Supervised orientation, observation, and instruction with the Indiana State Board of Health, local health agencies, and others concerned with environmental control; primary emphasis upon environmental health functions and health problems.

**AHLT H466 Environmental Health Practicum II (3 cr.)**

Supervised advanced training in professional and technical functions in environmental health; guided student activity and performance in professional environmental health functions.

**AHLT H467 Environmental Health Practicum III (3 cr.)**

Directed community environmental health project; practical experience in surveys, investigations, and problem analysis of a community environmental health problem.

**AHLT H470 Environmental Health Seminar (2 cr.)**

Critical analysis of community environmental health problems; study and analysis of a "model county" and associated environmental health epidemiology, administration, and control of communicable diseases and environmental hazards.

**AHLT H490 Research (cr. arr.)**

For advanced students only. Supervised research problems in field of public health.

## Health Administration

**AHLT B401 Introduction to Hospital Administration I (3 cr.)**

General orientation to hospital departments, hospital organization, board of trustees, medical staff, administration, concept of management in a public service enterprise.

**AHLT B402 Introduction to Hospital Administration II (3 cr.)**

Role of hospital in community, hospital goals and programs, coordination of hospital departments, managerial evaluation and improvement, relationships to official and voluntary health agencies.

**AHLT B411-B412 Nursing Home Administration I and II (3-3 cr.)**

Nursing home regulations, legal aspects, and insurance; personnel management; medical records; diet and food service; rehabilitation; nursing services; psychiatric aspects in handling of geriatric patients; professional standards; use of volunteer groups.

**AHLT B413 Nursing Home Administration III (3 cr.)**

Topics include building management and housekeeping services, public relations, comprehensive health planning for long-term care services, pastoral care in the nursing home, fire safety, labor law, volunteer services, activity programs, and management of long-term care facilities.

**AHLT B421 Management in Health Organizations I (3 cr.)**

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.

**AHLT B422 Management in Health Organizations II (3 cr.)**

Executive and professional staff responsibilities and development; evaluation and utilization of quantitative data collected for management; internal communications and control; emphasis on decision-making process in evaluation and reappraisal.

**AHLT B465 Field Practice (10 cr.)**

Supervised field training of nine weeks in administrative practice in voluntary or official health-related agency; student participates in various phases of health administration at the management level.

### Public Health Dental Hygiene

Students in this program should see the *Bulletin of the School of Dentistry* for a description of second- and third-year courses.

**\*AHLT D401 Clinical Supervision (2 cr.)**

Supervisory experience in clinics and laboratories involved in teaching students enrolled in Dental Hygiene curriculum; problems incident to patient-student and instructor-student relationships.

**AHLT D403 Speech Pathology (2 cr.)**

Orientation to speech pathology; emphasis on dental-related problems.

**AHLT D405 Community Dental Hygiene (5 cr.)**

Describes organization and administration of various types of programs of the Dental Health Division of Indiana State Board of Health.

**AHLT D465 Public Health Field Practice (3 cr.)**

Supervised field training consisting of five-week assignment with an official health agency, permitting the student to observe and participate in all phases of public health.

**†DENT G999 Public Health Practice (3 cr.)**

Functions, scope, and historical background of public health; organization of official and voluntary public health agencies with emphasis on their dental health programs.

### Public Health Education

**AHLT E440 School Health Education (3 cr.)**

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

**AHLT E442 Community Health Education (3 cr.)**

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.

**AHLT E443 Public Health Education Methods (3 cr.)**

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.

**AHLT E465 Public Health Field Practice (10 cr.)**

Supervised field training is done on full-time basis for nine weeks in selected official and voluntary health agencies. Students assist in planning and conducting health education activities.

### Public Health (General)

**AHLT G996 Epidemiology (3 cr.)**

Principles and methods used in epidemiologic investigations. Review of communicable disease control with emphasis on etiologic factors, modes of transmission and methods of control. Non-infectious pathogenic conditions, uses of statistical analysis, and group discussions. Case method of approach, with materials prepared by the NCDC.

\* Admission by permission of Director of Dental Hygiene, School of Dentistry.

† Offered in the School of Dentistry.

## Radiologic Technology

**AHLT R405 Radiographic Correlation I (cr. arr.)**

Lectures concerning program administration; observations of and experience in methods of clinical instruction for radiologic technology students.

**AHLT R406 Radiographic Correlation II (cr. arr.)**

Continuation of AHLT R405.

**AHLT R412 Basic Mathematics and Nuclear Physics (3 cr.)**

Review of basic math and lectures on atomic structure, radioactive decay, nuclear reactions and interactions of radiation with matter.

**AHLT R417 Nuclear Medicine Instrumentation (3 cr.)**

Lectures and laboratory exercises covering the principles of operation and operating characteristics of all types of laboratory counting systems, including imaging devices.

**AHLT R422 Radionuclide Measurements (3 cr.)**

Lectures and laboratory sessions emphasizing the clinical utilization of nuclear counting and imaging systems, including counting statistics and principles of quantitative measurements.

**AHLT R427 Radiopharmaceuticals, Radiation Biology and Radiation Protection (3 cr.)**

Lectures on properties of radioactive tracers, biological effects of ionizing radiation, preparation of radiopharmaceuticals, and principles and procedures of radiation protection.

**AHLT R432 Clinical Application of Radionuclides (3 cr.)**

Lectures covering the clinical aspects of nuclear medicine procedures, including the physiological basis and technical procedures for each type of study.

**AHLT R445 Clinical Nuclear Medicine Practicum I (6 cr.)**

Practical clinical application of nuclear medicine theory.

**AHLT R446 Clinical Nuclear Medicine Practicum II (6 cr.)**

Continuation of AHLT R445.

**AHLT R447 Clinical Nuclear Medicine Practicum III (4 cr.)**

Continuation of AHLT R446.

**AHLT R450 Radiobiology (2 cr.)**

Fundamentals of the biological effects of ionizing radiation on living systems, especially in man; basic biological mechanisms which bring about somatic and genetic effects.

**AHLT R451 Research in Radiobiology (4 cr.)**

Lectures and laboratories designed to demonstrate the biological effects of ionizing radiation on living matter. Individual projects with papers required.

**AHLT R455 Tumor Localization Technique (5 cr.)**

Various radiologic techniques used to define the limits of the tumor and to establish the borders of area or areas to be treated with radiation; clinical application of treatment.

**AHLT R460 Physical Principles of Radiation Physics (2 cr.)**

Advanced lectures on nuclear physics; conservation of energy and matter; quantum electronics; interactions of radiations and matter.

**AHLT R465 Principles of Dosimetry (2 cr.)**

Laboratory experiments demonstrating the principles and techniques of radiation monitoring and hazard control; operation and use of radiation survey instruments; detection and evaluation of radiation and contamination hazards.

**AHLT R470 Radiation Statistics Study (4 cr.)**

Statistical research project dealing with data compiled in the Department of Radiation Therapy at the Indiana University Medical Center.

**AHLT R475 Clinical Application in Radiation Therapy (5 cr.)**

Clinical application of special radiation therapy examinations.

**TAHS I100 Orientation to Radiologic Technology (2 cr.)**

Introduction to program in radiologic technology and to field of radiology and its history. Student learns proper and ethical standards and is acquainted with duties and responsibilities of personal care for the patient.

**TAHS R101 Radiographic Positioning I (3 cr.)**

To obtain knowledge, skills, and application of alignment of body parts, cassette, and X-ray tube in each radiographic examination. Correlated with anatomy and physiology and patient care procedures. Film critique.

**TAHS R102 Principles of Radiography I (3 cr.)**

Basic fundamentals concerned with production, analysis, and recording of the radiographic image. Includes film processing and proper radiation in electrical protection techniques. Film critique.

**TAHS T100 Medical Terminology (1 cr.)**

Introduction of origin and derivation of medical words as well as their meaning. Includes use of medical dictionary.

**TAHS M200 Pathology (2 cr.)**

To acquaint the student with certain changes that occur in disease and injury and their application to radiologic technology. Not intended as detailed course in pathology.

**TAHS M201 Tumor Pathology (1 cr.)**

Radiobiological and cytological characteristics of carcinoma.

**TAHS R201 Radiographic Positioning II (3 cr.)**

Furthering knowledge, skills, and application of alignment of body parts, cassette, and X-ray tube in each radiographic examination. Emphasis will be given to special radiographic procedures. Film critique. Correlated with Principles of Radiography II.

**TAHS R202 Principles of Radiography II (3 cr.)**

Detailed study of fundamentals considered in Principles of Radiography I. Emphasis given to specialized equipment. Correlated with Radiographic Positioning II. Film critique.

**TAHS R203 Radiation Therapy Treatment and Planning (2 cr.)**

Lectures and practical tutorials in factors related to treatment-planning for radiation therapy: compounding isodose curves, wedged fields, tissue compensators, inhomogeneity corrections, irregularly shaped fields, rotational therapy. Paterson-Parker interstitial calculations, and isodose curves around interstitial and intracavitary applications.

**TAHS R204 Radiation Therapy Technique (3 cr.)**

Lectures and discussions designed to cover the basic physics relating to therapeutic radiology and the principles of radiation dosimetry. Laboratory exercises include calibration and survey of Cobalt-60 irradiators and orthovoltage X-ray machines.

**TAHS R222 Principles of Radiography III (3 cr.)**

Further development of concepts learned in Principles of Radiography I, II. Emphasis on formulation and application of technique charts. Film critique.

**TAHS X100 Clinical Experience I (cr. arr.)****TAHS X101 Clinical Experience II (cr. arr.)****TAHS X200 Clinical Experience III (cr. arr.)****TAHS X201 Clinical Experience IV (cr. arr.)**

Clinical application of radiographic positioning, exposure techniques, and departmental procedures in all phases of radiologic technology, under the direct supervision of a registered technologist. Credit arranged for Clinical Experience I, II, III, IV and Comprehensive Experience, totaling a minimum of 2400 clock hours.

**TAHS X222 Comprehensive Experience (cr. arr.)**

Student assumes greater responsibility in advanced clinical application of radiographic positioning, exposure techniques, and research. A review correlation of clinical and classroom experience. Credit arranged for Clinical Experience I, II, III, IV and Comprehensive Experience, totaling a minimum of 2400 clock hours.

**TAP 100 Anatomy and Physiology (3 cr.)**

Structures and functions of the human body as applied to radiology.

**TPHY P200 Physics Applied to Radiology (2 cr.)**

Fundamentals of X-ray generation in radiant energy.

**TRNM T201 Radiation Therapy and Nuclear Medicine (2 cr.)**

Fundamentals of radiation therapy including various types of radiation therapy devices and their application to disease. Introduction to basic instrumentation and clinical application of medical isotopes.

**TPHY P203 Advanced Radiation Physics (2 cr.)**

Lectures and discussion designed to cover high energy physics as it applies to radiotherapy. Laboratory exercises utilize ionization chambers, proportional counters, thermoluminescent dosimeters, and ferrous sulfate chemical dosimeters in the measurement of radiation fields. A second series of lectures covers the basic fundamentals on the applicability of computers to therapeutic radiology.

## Respiratory Therapy

**AHLT F201 Respiratory Therapy I (6 cr.)**

Lecture and demonstrations in various procedures and techniques; objectives of respiratory therapy. Organization and function of a respiratory therapy department, care of equipment, ethics, and experience in patient treatment in which respiratory therapy techniques are applied.

**AHLT F202 Respiratory Therapy II (2 cr.)**

P: F201. Advanced experience in patient treatment supervised by registered inhalation therapists in facilities affiliated with educational program. Includes positive pressure treatments, continuous ventilators and blood gas analysis.

**AHLT F203 Respiratory Therapy III (2 cr.)**

P: F202. Advanced experience in patient treatment supervised by registered inhalation therapist in facilities affiliated with educational program. Includes pulmonary function studies and administration.

**AHLT F211 Respiratory Therapy Clinical Education I (2 cr.)**

Clinical experience in patient treatment using respiratory therapy techniques discussed in AHLT F201.

**AHLT F212 Respiratory Therapy Clinical Education II (2 cr.)**

Clinical experience in patient treatment using respiratory therapy techniques discussed in AHLT F202.

**AHLT F213 Respiratory Therapy Clinical Education III (2 cr.)**

Clinical experience in patient treatment using respiratory therapy techniques discussed in AHLT F203.

**Master's Program in Allied Health Sciences Education**

For the following courses refer to the *Graduate Bulletin of the Division of Education*: H504, H520, H530, H538, P510, and P525.

**AHLT Z500 Interdisciplinary Care of the Multihandicapped Child (1-3 cr.)**

Introduction to functions of an interdisciplinary team in providing optimum care for multihandicapped children.

**AHLT Z526 Workshop on Selected Problems in Allied Health Sciences (cr. arr.)**

Individual and group study dealing with current problems or procedures for improving teaching and practice in allied health fields.

**AHLT Z590 Research in Allied Health Sciences (cr. arr.)**

Individual research in an allied health field. Research may be of educational, laboratory, or clinical nature.

**AHLT Z594 Management Procedures in Allied Health Sciences (3 cr.)**

Techniques of office management, management of funds, accounting, records and reports, and purchasing applied to allied health services. Principles of effective organization, supervision, and administration.

**AHLT Z650 Readings in Allied Health Sciences (3 cr.)**

Selected readings.

**AHLT Z780 Seminar in Allied Health Sciences (3 cr.)**

Individual and group study focusing upon research relevant to allied health sciences. Critique of research problems and methodology, with correlation and integration of knowledge to develop theoretical bases to guide treatment or education.

**EDUC T501 Introduction to Scientific Inquiry (3 cr.)**

Analysis and interpretation of data, introduction to theory of advanced statistical techniques, and principles of research design appropriate to clinical setting.

**EDUC T507 Evaluation in Allied Health Sciences Education (3 cr.)**

Principles of construction and interpretation of written achievement tests and other evaluative procedures applied to allied health sciences education in academic, laboratory, and clinical settings. Project is required to apply the principles involved.

**EDUC T525 Curriculum and Instruction in Allied Health Sciences (3 cr.)**

Principles of curricular construction. Content, material, and methods of instruction in allied health sciences.

**EDUC T561 Allied Health Sciences in Community Health (3 cr.)**

Introduction to public health and functions of voluntary and official health agencies. Personal and community health needs and trends influencing education, practice, and future developments in allied health fields.

**EDUC T599 Master's Thesis (6 cr.)**

Individual investigation in the form of an organized scientific contribution or a comprehensive analysis in a specified area related to an allied health field.

**EDUC T695 Practicum in Teaching (3 cr.)**

Relating educational theory to practice through supervised teaching experience in an allied health setting. Emphasis upon planning, structuring, and evaluating learning experiences.

**ALLIED HEALTH CORE AND ELECTIVE COURSES**

For suggested electives, students should consult individual program presentations in this Bulletin. Students should consult the bulletins of the schools and divisions offering the core and elective courses (i.e., College of Arts and Sciences, Business, etc.) and the bulletins of the various campuses of Indiana University for course numbers and descriptions.

# Faculty and Staff, 1974-75

## 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.O.T.A.—Certified Occupational Therapy Assistant; approved by the American Occupational Therapy Association
- C.T. (ASCP)—Cytotechnologist; approved by the American Medical Association and the American Society of Clinical Pathologists
- H.E.I.F.S.S.—Hospital Education Institution Food Service Society
- 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.S.—Registered Professional Sanitarian
- R.P.T.—Registered Physical Therapist; approved by the American Medical Association and the American Physical Therapy Association
- R.R.A.—Registered Record Administrator; approved by the American Medical Association and the American Medical Record Association
- R.T.—Registered Radiologic Technologist; approved by the American Medical Association and the American Registry of Radiologic Technologists

## PROGRAM DIRECTORS

- JOHN M. DOTY, Ph.D., Director for Public Health Programs
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- SUZANNE BOUNDY, M.S., Director of Dental Hygiene Programs
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- DEFRANTZ, ANITA P., A.M. (Indiana University, 1962), Instructor in Speech Pathology (School of Medicine)
- DIPERT, DENNIS L., M.S. (Indiana University, 1974), R.P.T. (1970), Assistant Professor of Allied Health
- DOTY, JOHN M., Ph.D. (University of Michigan, 1972), Director for Public Health Programs, and Assistant Professor of Preventive Medicine
- DRESSEN, ROBERT J., A.S.R.T. (Indiana University, 1974), Teaching Associate in Radiologic Technology
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- FISHER, FRANK E., B.S.E.E. (Purdue University, 1930), Lecturer in Public Health
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- GLADDEN, CLIVERDA, B.S. (Indiana University, 1973), A.R.R.T. (1971), Clinical Supervisor, and Instructor in Radiology
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- GRIEP, JOHN A., M.D. (University of Michigan, 1962), Professor of Clinical Pathology
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- HAMANT, CELESTINE, M.S. (Butler University, 1971), O.T.R. (1963), Director of Occupational Therapy Hospital Services, and Assistant Professor of Occupational Therapy
- HARSHMAN, HARDWICK W., Ph.D. (University of Michigan, 1962), Professor of Allied Health Sciences and Education
- HEFNER, PATRICIA H., B.S. (Indiana University, 1971), R.D.H. (1970), Clinical Instructor in Dental Hygiene (School of Dentistry)
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- HOOVER, CHARLES, R.T., Teaching Associate in Radiologic Technology
- HOPPER, SAMUEL H., Ph.D. (Massachusetts Institute of Technology, 1937), Director of Public Health Administration and Education, and Professor of Public Health
- HORNBACK, NED B., M.D. (University of Wisconsin, 1956), Professor of Radiology
- HUBBARD, JESSE D., M.D. (Johns Hopkins University, 1951), Professor of Pathology
- IRWIN, GLENN W., JR., M.D. (Indiana University, 1944), Chancellor, Indiana University - Purdue University at Indianapolis, and Professor of Medicine
- IRWIN, LOUISE, M.S. (Purdue University, 1950), Director, and Professor of Dietetics
- JONES, ELIZABETH A., M.S. (Indiana University, 1949), M.P.H. (University of Michigan, 1965), Lecturer in Public Health
- JUNG, DAVID, Ph.D. (Indiana University, 1935), Assistant Professor of Clinical Pathology
- KAVULA, MICHAEL P., Pharm. D. (University of Cincinnati, 1971), Radiopharmacist in Nuclear Medicine, and Instructor in Radiology
- KEHREIN, SUETTA, M.S., R.T. (Indiana University, 1975), Coordinator of Baccalaureate Programs in Radiologic Technology
- KIEL, JUDITH, B.S., O.T.R. (Indiana University, 1969), Instructor in Occupational Therapy
- KLATTE, EUGENE C., M.D. (Indiana University, 1952), Chairman, and Professor of Radiology
- KORTRIGHT, NANCY S., B.S. (Indiana University, 1969), C.T. (ASCP, 1965), Assistant Professor of Cytotechnology
- KOSS, JOSEPH A., B.S. (University of Wisconsin, 1964), Co-Director, and Assistant Professor of Respiratory Therapy
- LACY, MARY ANN, M.S. (Indiana University, 1973), R.R.A. (1954), Director, and Assistant Professor in the Medical Record Administration Program
- LADUE, RUTH, A.M. (Stanford University, 1966), R.P.T. (1945), Assistant Professor of Physical Therapy
- LEHMAN, RACHEL M., B.S. (Indiana State University, 1929), M.T. (ASCP, 1936), Assistant Professor of Medical Technology
- LEWIS, MARY A., M.S. (Butler University, 1972), B.S. in Nursing (Marillac College, 1960), Assistant Professor of Health Occupations Education

- LIFSEY, LINDA, M.S. (Indiana University, 1968), Instructor in Dietetics
- LoSASSO, ALVIN M., M.D. (The Ohio State University, 1963), Director of the Respiratory Therapy Program, and Associate Professor of Anesthesiology
- LUKEMEYER, GEORGE T., M.D. (Indiana University, 1947), Executive Associate Dean of the School of Medicine, and Professor of Medicine
- LUKEMEYER, JACK W., Ph.D. (Indiana University, 1963), Associate Dean for Allied Health Sciences and Associate Professor of Pediatrics
- McCLANAHAN, EMILY, B.S. (Indiana University, 1974), A.R.R.T. (1970), Educational Coordinator, and Assistant Professor of Radiologic Technology
- McDONALD, RALPH E., D.D.S. (Indiana University, 1944), M.S. (1951), Dean of the School of Dentistry; Professor of Pedodontics (School of Dentistry)
- MAGEE, MARION R., A.M. (Smith College, 1961), R.P.T. (1956), Assistant Professor of Physical Therapy
- MANION, MARLOW W., M.D. (Indiana University, 1926), Professor of Otolaryngology
- MATTHEWS, WILLIAM M., M.D. (Indiana University, 1946), Associate Professor of Anesthesiology
- MILLER, JERRY, M.D. (Temple University, 1947), Professor of Anesthesiology
- MILLER, M. DEVON, M.S. (Indiana University, 1966), Assistant Professor in the Medical Record Administration Program
- MINTON, SHERMAN A., JR., M.D. (Indiana University, 1942), Professor of Microbiology
- MITCHELL, RUTH U., Ph.D. (Case Western Reserve University, 1970), (R.P.T., 1954), Associate Professor of Physical Therapy
- MOOREHEAD, WELLS R., Ph.D. (University of Tennessee, 1965), Associate Professor of Clinical Pathology
- MORROW, JAMES R., M.S. (Indiana University, 1970), R.P.T. (1965), Assistant Professor of Physical Therapy
- NATHAN, CAROL, A.M. (University of Southern California, 1968), O.T.R. (1958), Director, and Associate Professor of Occupational Therapy
- NORDSCHOW, CARLETON, M.D. (University of Iowa, 1953), Ph.D. (University of Iowa, 1964), Director of Medical Technology, Chairman and Professor of Clinical Pathology
- OEL, TJEN O., M.D. (University of Indonesia, 1958), Associate Professor of Clinical Pathology
- OLECKNO, WILLIAM A., M.P.H. (University of Pittsburgh, 1973), R.P.S. (1974), Coordinator for Environmental Health Sciences, and Instructor in Environmental Health
- PORTER, JERRY, B.S., N.M.T. (Indiana University, 1970)
- POTTER, SALLIE, A.B. (Washington University, 1966), O.T.R. (1966), Coordinator, Field Experience, and Instructor in Occupational Therapy
- PROKSCH, GARY J., Ph.D. (University of Iowa, 1970), Assistant Professor of Clinical Pathology
- RAIDT, HAROLD, M.S. (University of Kentucky, 1934), Professor of Microbiology (School of Medicine, School of Dentistry, Graduate School)
- RENDER, JOHN C., J.D. (Indiana University, 1971), Assistant Professor, Medical Record Administration Program
- RIDLEY, ELTON, M.B.A. (University of Chicago, 1952), Special Consultant to Chancellor for Medical Center Planning, and Associate Professor of Hospital Administration
- ROBERTS, STANLEY C., M.A. (State University of New York at Buffalo, 1971), Assistant Professor Cryo-Hematology and Medical Technology
- ROESCH, RYLAND P., M.D. (Indiana University, 1948), Associate Professor of Anesthesiology
- RUECKL, RICHARD, B.S. (Wisconsin State University, 1968), Instructor in Respiratory Therapy
- SCHAEFER, CAROL, B.S. (Indiana University, 1968), R.P.T. (1968), Instructor in Physical Therapy
- SCHNEIDER, NANETTE RUTH, M.P.H. (University of Michigan, 1974), M.T. (ASCP, 1972), Assistant Professor of Medical Technology
- SEIBERT, MARY L., M.S. (Indiana University, 1973), M.T. (ASCP, 1963), Director of Health Occupations Education, and Assistant Professor of Allied Health Sciences

- SHANKS, JAMES C., JR., Ph.D. (Northwestern University, 1957), Clinical Director of Speech Pathology Services, and Professor of Speech Pathology (Otorhinolaryngology and Bronchoesophagology)
- SIMEK, ERNA, M.H.A. (Washington University, 1954), O.T.R. (1944), Director, Occupational Therapy Technology Curriculum, and Associate Professor of Occupational Therapy
- SMITH, DONALD E., M.B.A. (University of Chicago, 1963), Associate Director of Nursing Home Administrators Course, and Assistant Professor of Health Administration
- SMITH, JAMES W., M.D. (University of Iowa, 1959), Professor of Clinical Pathology
- SNIDER, RICHARD T., Ph.D. (University of Houston, 1970), Associate Professor of Clinical Psychology (Psychiatry)
- SOLOW, ELIXABETH B., M.S. (Indiana University, 1962), Assistant Professor of Neurological Surgery (Surgery)
- SUMMERS, WILLIAM A., Ph.D. (Tulane University of Louisiana, 1940), Professor of Microbiology (School of Medicine, School of Dentistry, Graduate School)
- TIDD, GRETCHEN S., M.S. (Indiana University, 1973), R.P.T. (1966), Assistant Professor Allied Health Sciences Education
- TOTTEN, CARLA J., B.S. (Indiana University, 1967), R.D.H. (1955), Clinical Supervisor, Assistant Professor of Dental Hygiene (School of Dentistry)
- VAN NESS, ADA M., M.S. (The Ohio State University, 1963), Assistant Professor of Dietetics
- WEAVER, ANITA H., B.S. (Indiana University, 1970), R.D.H. (1965), Clinical Instructor in Dental Hygiene (School of Dentistry)
- WEBSTER, RICHARD C., Ph.D. (University of Kansas, 1949), Associate Professor of Anatomy (School of Medicine, School of Dentistry, Graduate School)
- WEEKS, ZONA R., M.S. (Butler University, 1972), O.T.R. (1959), Assistant Professor of Occupational Therapy
- WELLMAN, HENRY N., M.D. (St. Louis University, 1961), Director of Nuclear Medicine, and Professor of Radiology
- WILSON, ARLENE M., M.S. (Purdue University, 1957), Director of Hospital Dietary Technology, and Professor of Dietetics
- YOUNG, M. KATHRYN, A.M. (University of Michigan, 1937), R.P.T. (1946), Assistant Professor of Physical Therapy
- YOUNG, MILDRED, M.S. (Butler University, 1966), M.T. (ASCP, 1942), Assistant Professor of Medical Technology

## ADJUNCT LECTURERS IN MEDICAL TECHNOLOGY

### ANDERSON

#### St. John's Hickey Memorial Hospital

- BROWN, REBECCA A., B.S. (Ball State University, 1968), M.T. (ASCP, 1968), Section Chief in Medical Technology, Chemistry, and Hematology
- BUCKLES, DAVID L., M.D. (Indiana University, 1943), Director of Medical Technology and of Department of Pathology
- HOELTKE, LYNN B., B.S. (Purdue University, 1971), M.T. (ASCP, 1973), Section Chief in Medical Technology, Blood Bank, Microbiology
- HOLDCRAFT, MARTHA A., B.S. (Indiana University, 1953), M.T. (ASCP, 1953), Laboratory Director
- SCHUSTER, M. GARY, B.S. (Ball State University, 1961), M.T. (ASCP, 1962), Education Coordinator in Medical Technology
- STEVENSON, JERRY L., M.D. (Ohio State University, 1960), Associate Director of Medical Technology and of Department of Pathology
- THOMPSON, ROBERT C., B.S. (Ball State University, 1973), M.T. (ASCP, 1973), Department Head in Medical Technology, Hematology

### BEECH GROVE

#### St. Francis Hospital

- ATKINSON, KENNETH, Ph.D. (Indiana University, 1974), Clinical Chemist, Instructor, (School of Medicine)
- BOLINGER, GARRY L., M.D. (Indiana University, 1966), Assistant Clinical Professor, Department of Pathology (School of Medicine)

- BUEHL, ISABELLE, M.D. (Indiana University, 1959), Assistant Clinical Professor, Department of Pathology (School of Medicine)
- CAMPBELL, CAROL, B.S. (Indiana University, 1971), M.T. (ASCP, 1971), Instructor and Lecturer in Chemistry
- CHARNLEY, JUDITH, B.S. (Ball State, 1954), M.T. (ASCP, 1954), Assistant Chief Technician, Blood Bank Supervisor, Instructor and Lecturer in Radioisotopes and Blood Bank
- COSTIN, ROBERT L., M.D. (Indiana University, 1956), Director of Medical Technology and Assistant Clinical Professor, Department of Pathology (School of Medicine)
- GONY, PATRICIA, B.S. (Indiana University, 1970), M.T. (ASCP, 1970), Instructor and Lecturer in Microbiology
- HAGENMAIER, EDYTHE, B.S. (Indiana University, 1947), M.T. (ASCP, 1947), Instructor and Lecturer in Hematology
- HANNA, BETTYLYN, B.S. (Indiana University, 1959), M.T. (ASCP, 1959), Education Coordinator
- ROLFSEN, SUSAN, B.S. (Marian College, 1971), M.T. (ASCP, 1971), Medical Technologist, Instructor in Urinalysis and Serology, Lecturer in Urinalysis, Serology, and Coagulation

### EVANSVILLE

#### Deaconess Hospital

- FRIEDLEIN, GLENDA, B.S. (Indiana State University, 1969), M.T. (ASCP, 1969)
- LITTELL, ANDREW H., M.D. (Cornell Medical College, 1962), Pathologist
- MILLS, FRED E., M.D. (University of Kansas, 1938), Associate Pathologist
- YIM, YOUNG S., M.D. (Seoul National University, 1958), Associate Pathologist

### FORT WAYNE

#### Lutheran Hospital

- ALFRED, ALLEN W., M.D. (Indiana University, 1953), Associate Pathologist
- AUST, CHARLES, M.D. (Indiana University, 1953), Associate Pathologist
- BURR, ALICE, A.B. (Wooster College, 1939), M.T. (ASCP, 1941), Instructor in Hematology
- FRANCE, LLOYD, M.T. (ASCP, 1957), C.T. (ASCP, 1960), Lecturer in Cytotechnology and Chief Technologist
- GRIEST, WALTER D., M.D. (University of Cincinnati, 1944), Director of Medical Technology and of Department of Pathology
- LOWER, RUTH, H.T. (ASCP, 1957), Instructor in Histology
- MYERS, HELEN, B.S. (Bowling Green University, 1946), M.T. (ASCP, 1947), Education Director
- POWERS, CYNTHIA, B.A. (Oberlin, 1958), M.T. (ASCP, 1959), Instructor in Serology
- STUMP, SANDRA, A.B. (Depauw University, 1958), M.T. (ASCP, 1959), Instructor in Bacteriology
- SPRINGER, JANET, B.S. (Ball State University, 1970), M.T. (ASCP, 1970), Instructor in Blood Banking
- WAITMAN, LINDA, B.A. (Ohio Northern University, 1967), M.T. (ASCP, 1972), Instructor in Blood Bank

#### Parkview Memorial Hospital

- BORCHERDING, WAYNE, B.S. (Indiana University, 1968), M.T. (ASCP, 1968), Education Coordinator, Lecturer in Medical Technology
- FRANKHOUSER, CHARLES, M.D. (State University of New York, 1950), Assistant Professor of Pathology
- SCHLADEMAN, KARL R., M.D. (Northwestern University, 1942), Director, and Assistant Professor of Pathology

#### St. Joseph's Hospital

- JANSCH, THEODORE L., M.D. (University of British Columbia, 1954), Assistant Professor of Pathology
- PAN, CHARLES M., M.D. (National Taiwan University, China, 1953), Assistant Professor of Pathology
- RUMSCHLAG, DONALD R., M.S. (St. Francis College, 1972), M.T. (ASCP, 1960), Instructor in Medical Technology

SCHNEIDER, LOUIS, M.D. (New York University, 1940), Director, and Assistant Professor of Pathology

SCHOFFE, LARRY E., M.S. (Indiana University, 1969), M.T. (ASCP, 1968), Coordinator, and Instructor in Medical Technology

### GARY

#### Methodist Hospital of Gary

BERNDT, CHARLOTTE, B.S. (Valparaiso University, 1965), M.T. (ASCP, 1966), Lecturer in Medical Technology

CHAMBERLAIN, CHARLENE, M.S. (North Texas State University, 1970), M.T. (ASCP, 1963), Lecturer in Medical Technology

HAN, DANIEL, M.D. (National Honan University, China, 1949), Associate Director and Pathologist

HENTZ, JOSEPHINE, (University of Pittsburgh), M.T. (ASCP, 1956)

HOLOWATY, JEAN, B.S. (Heidelberg University, School of Medicine, 1948), M.T. (ASCP, 1957), Educational Coordinator, Lecturer in Medical Technology

JOHNSON, MARTHA, A.B. (Indiana University), M.T. (ASCP, 1940), Lecturer in Medical Technology

KACHMER, NANCY, B.S. (Purdue University, 1971), M.T. (ASCP, 1971)

LOH, H. Y. CHANG, M.D. (Yale-in-China Medical School, 1944), M.S. in Pathology (University of Utah, 1952), Ph.D. in Pathology (Boston University, 1956), Part-time Pathologist

LOH, WEI-PING, M.D. (National Medical College of Shanghai, China, 1946), M.P.H. (University of Michigan, 1950), Ph.D. (Boston University, 1954), Director, and Chief Pathologist, Methodist Hospital of Gary, Inc.; Associate Professor of Pathology, Chicago Medical School

LUTTINEN, THELMA, A.B. (Olivet College, 1935), M.T. (ASCP, 1938), Lecturer in Medical Technology

SOHANEY, JOAN, M.S. (Valparaiso University, 1970), M.T. (ASCP, 1959), Technical Director of Laboratory

SOMANI, I. K., M.B. (Agra University, India, 1954), M.D. (Vikram University, India, 1958), Junior Pathologist

URBI, ETHEL, B.S. (Santo Tomas, 1969), M.T. (ASCP, 1971)

WASSEROTT, EDNA, M.T. (ASCP, 1956), Lecturer in Medical Technology

WELLS, ETHEL, M.S. (Ball State University, 1968), M.T. (ASCP, 1968), Lecturer in Medical Technology

WITTERS, NANCY, B.S. (Valparaiso University, 1969), M.T. (ASCP, 1970)

#### St. Mary Medical Center

ANDREW, CAROL, B.S. (Indiana University, 1970), S.H. (ASCP, 1973), Chief Technologist in Hematology

BLASTICK, RITA, A.M. (University of Notre Dame, 1970), M.T. (ASCP, 1964), Teaching Supervisor, and Instructor in Medical Technology

CAPLIS, MICHAEL E., Ph.D. (Purdue University, 1970), Instructor in Medical Technology

DEMITROULAS, SUE, B.S. (Culver Stockton College, 1964), M.T. (ASCP, 1966), Chief Technologist in Blood Bank

DOLAN, TIMOTHY, Ph.D. (University of North Dakota, 1971), Director of Microbiology

GRESKOVICH, TOM, B.S. (Indiana University, 1971), Lecturer in Mycology, Parasitology

HAMMOND, BARBARA, B.S. (Indiana University, 1972), M.T. (ASCP, St. Mary Mercy Hospital, 1972), Chief, Blood Bank, Hobart

HUANG, TSAU, M.D. (Kaohsiung Medical College, 1965), Anatomical Pathology

KEELEN, RONALD, A.M. (Fairleigh Dickenson University, 1969), M.T. (ASCP, 1971), Laboratory Manager

KINO, YOICHI, M.D. (Keio University, Tokyo, Japan, 1957), American Board of Obstetrics and Gynecology, 1967, St. Francis Hospital, Peoria, School of Medicine (Patology), 1969-72, Assistant Pathologist, St. Mary Mercy Hospital

KUCHARIK, RONALD, B.A. (Lake Forest College, 1967), Clinical Chemist, St. Mary Mercy Hospital, Lecturer, Special Chemistry and Toxicology

LAZZARO, DOMENICO, M.D. (Universidad DeLos Andes), Assistant Pathologist, St. Mary Mercy Hospital, Clinical and Anatomical Pathology



- LEDGERWOOD, KAREN, B.S. (Indiana University, 1973), M.T. (ASCP, St. Mary Mercy Hospital, 1973), Medical Technologist, Bacteriology and Lecturer in Mycology, Parasitology
- LIBER, MARIA, B.S. (Heidelberg University, Germany, 1947), M.T. (ASCP, 1965), Lecturer in Medical Technology
- MARTIN, JOHN, M.S. (Northern Illinois University, 1973), Chief Chemist
- MASON, EARL J., M.D. (Case Western Reserve University, 1954), Director of the School of Medical Technology, and Pathologist
- MAUPIN, BRENDA, H.T. (ASCP, St. Mary Mercy Hospital, 1971) Chief Histotechnologist
- PAVEL, JULIANA, R.T. (ARRT, Rush-Presbyterian St. Luke's Medical Center, 1970), (NMT, Duke University, 1971), Technologist, Nuclear Medicine
- PAZEL, JULIANNA, R.T. (N.M.T.) ARRT, 1972, Technological Nuclear Medicine
- PRYGOSKY, BERNADINE, B.S. (Indiana University, 1970), M.T. (ASCP, 1970), Senior Technologist in Biochemistry
- SIMAGA, KAREN, B.S. (St. Joseph's College, 1971), M.T. (ASCP, St. Mary Mercy Hospital, 1971) Senior Technologist and Lecturer in Hematology

### INDIANAPOLIS

#### Methodist Hospital

- ANTLEY, RAY M., M.D. (Emory University, 1962), Lecturer in Medical Genetics
- BENNETT, LINDA, A.B. (Indiana University, 1968), Instructor
- DEROSSI, ROBERT V., M.D. (Johns Hopkins University, 1963), Pathologist
- DOW, GRACE, B.S. (University of Louisville, 1966), C. (ASCP, 1969), Instructor
- DRIVER, ROBIENETTA, M.A. (Indiana Central College, 1971), M.T. (ASCP, 1960), Education Coordinator
- ERTEL, JOYCE, B.S. (Franklin College, 1965), M.T. (ASCP, 1966), Associate Education Coordinator
- EVANS, PAUL V., M.D. (Indiana University, 1940), Pathologist
- GERMAN, RUTH, B.S. (Purdue University, 1933), M.T. (ASCP, 1935), Instructor in Hematology
- HART, CAROLYN, B.S. (Bennet College, 1963), M.T. (ASCP, 1964), Instructor in Blood Bank and Serology
- HOUSER, DUANE, M.D. (Indiana University, 1965), Lecturer in Immunology
- HOYT, LESTER H., M.D. (University of Iowa, 1937), Medical Director
- HURTEAU, WILLIAM W., M.D. (University of Iowa, 1937), Pathologist
- MACKENZIE, J. ROSS, M.D. (University of Aberdeen, Scotland, 1946), Pathologist
- OATIS, CAROLYN, B.S. (St. Louis University, 1969), M.T. (ASCP, 1969), Instructor in Microbiology
- PONTIUS, EDWIN E., M.D. (Indiana University, 1952), Pathologist
- SCHULZ, DALE M., M.D. (Washington University, 1949), Pathologist
- SIMPSON, JEAN, B.S. (Ball State University, 1969), M.T. (ASCP, 1969), Instructor
- SMITH, DAVID E., M.D. (University of Texas, 1963), Pathologist
- TERHUNE, MELANIE, B.A. (DePauw University, 1971), M.T. (ASCP, 1972), Instructor
- TILFORD, CHERYL, B.S. (University of Nebraska, 1970), M.T. (ASCP, 1970), Assistant Education Coordinator

#### St. Vincent Hospital

- CARD, WILLIAM H., M.D. (University of Wisconsin, 1954), Clinical Pathologist
- DEN HERDER, ELIZABETH, B.A. (Denison University, 1969), M.T. (ASCP, 1970), Microbiology, Supervisor
- DOTLICH, NANCY, B.A. (Indiana University, 1971), M.T. (ASCP, 1973), Blood Bank Technologist
- FOSTER, LEE N., M.D. (Northwestern University, 1943), Medical Director of School of Medical Technology, Director of Laboratories
- HESSONG, ALAN, As. Sc. (International Telephone and Telegraph, 1967), Chemistry Supervisor
- KNAPP, IRMENTRANT, M.T.A. (University of Heidelberg, 1950), A.R.T. (Canadian Society of Laboratory Technicians, 1964), Blood Bank Supervisor



- MULLER, VICTOR H., M.D. (Indiana University, 1953), Medical Director of Community Blood Bank; Associate Pathologist, Immunohematology
- RUCH, BETTY, B.S. (Indiana University, 1954), M.T. (ASCP, 1954), Coagulation Technologist
- SCHOOMER, MARY, B.S. (Mary Hardin Baylor College, 1948), M.T. (ASCP, 1948), Chemistry Technologist
- SMITH, NANCY, B.S. (Indiana University, 1968), M.T. (ASCP, 1968), Hematology Senior Technologist
- STANLEY, ANNAMAE, B.S. (Indiana State University, 1965), M.T. (ASCP, 1965), Chemistry Senior Technologist
- SULLIVAN, JAMES J., M.D. (Indiana University, 1953), Anatomic Pathologist
- UNDERHILL, MARIANNE, B.S. (St. Mary's College of Notre Dame, 1973), M.T. (ASCP, 1973), Blood Bank Technologist
- WESTERMAN, JANE, B.S. (Marian College, 1967), M.T. (ASCP, 1967), Educational Coordinator, School of Medical Technology

### KOKOMO

#### St. Joseph Memorial Hospital and Howard Community Hospital

- CLEVINGER, WILLIAM G., M.D. (Indiana University, 1944), Pathologist
- FISHER, JOSEPH, M.T. (ASCP, 1958), Medical Technologist
- GIELERAK, PAUL, M.S. (University of Minnesota, 1974), ASM (1974), Instructor and Lecturer in Microbiology (ASM: American Society of Microbiology)
- HARI, GYANESHWAR, M.S. (Punjab Agricultural College, India, 1969), M.T. (ASCP, 1971), Medical Technologist
- HARSHMAN, JAMES A., M.D. (Indiana University, 1955), Pathologist
- RUDICEL, MAX W., M.D. (Indiana University, 1943), Program Director and Pathologist
- WALL, CONSTANCE, A.B. (Syracuse University, 1948), M.T. (ASCP, 1965), Education Coordinator and Medical Technologist

### SOUTH BEND

#### South Bend Medical Foundation

- ALDRICH, JOAN E., M.S. (University of Minnesota, 1972), M.T. (ASCP, 1960), Instructor and Lecturer in Chemistry, Coordinator for Chemistry Education
- ALLEN, NORA M., B.S. (Michigan State University, 1948), M.T. (ASCP, 1948), Lecturer in Administration
- ANASTASIO, CAROL FUTTERKNECHT, B.S. (Saint Mary's College, 1962), M.T. (ASCP, 1962), Lecturer in Medical Technology
- BAHLER, JAMES E., M.S. (Purdue University, 1950), Instructor in Medical Technology
- BENNETT, JENE RICHARD, M.D. (Indiana University, 1940), Director of the South Bend Medical Foundation School of Medical Technology and Assistant Professor of Medical Technology
- BERNDT, JOAN G., B.S. (Saint Mary's College, 1965), M.T. (ASCP, 1958), Lecturer in Medical Technology
- BONDO, PAUL B., M.S. (University of Nebraska, 1971), Instructor in Medical Technology
- BYERS, BETTY J., B.S. (Indiana University, 1948), M.T. (ASCP, 1948), N.M.T. (1967), Lecturer in Medical Technology and Nuclear Medicine Technology
- DRUMMOND, JAMES A., M.D. (Indiana University, 1966), Pathologist
- GALUP, LUIS NEMESIO, M.D. (Universidad Nacional Mayor de San Marcos, Peru, 1963), Assistant Professor of Medical Technology
- GANGADHAR, RUDRAPPA, M.D. (Bangalore Medical College, India, 1970), Resident in Pathology
- GODERSKY, LOIS GARNET, M.D. (Indiana University, 1942), Assistant Professor of Medical Technology
- GOODHEW, CAROL M., B.S. (Saint Mary's College, 1967), M.T. (ASCP, 1957), Lecturer in Medical Technology
- HAGAN, BERNADINE, M.S. (University of Illinois, 1937), M.T. (ASCP, 1938), Medical Technology Education Coordinator and Instructor in Medical Technology

- HEET, ALOYSIOUS H., Instructor and Lecturer in Parasitology
- HEET, DOROTHY T., M.T. (ASCP, 1951), Lecturer in Medical Technology
- HUSSEY, LAWRENCE K., M.T. (Northwestern University, 1965), Assistant Professor of Medical Technology
- KANOUSE, JANE, B.S. (Indiana University, 1972), M.T. (ASCP, 1972), Lecturer in Medical Technology
- KOLASINSKI, KATHLEEN, B.S. (Mary Manse College, 1962), M.T. (ASCP, 1962), Lecturer in Medical Technology
- KOZAK, CATHERINE M., Ph.D. (University of Notre Dame, 1969), Instructor in Medical Technology
- LUST, DORIT E., B.S. (Indiana University, 1949), M.T. (ASCP, 1949), B.B. (1956), Lecturer in Medical Technology
- MALAK, FAHMY M. A., M.D. (Cairo University, Egypt, 1962), Resident in Pathology
- MARKEY, RAYMOND L., Lecturer in Parasitology
- MARTENS, GEORGE V., B.S. (Rutger's University, 1968), M.T. (ASCP, 1972), Lecturer in Medical Technology
- PASCUZZI, CHRIS A., M.D. (Creighton University, 1950), Assistant Professor of Medical Technology
- QUINN, MICHAEL G., M.D. (University of Miami, 1965), Assistant Professor of Medical Technology
- STRAUP, NEWTON F., M.S. (University of Notre Dame, 1967), M.T. (ASCP, 1954), N.M.T. (1966), Instructor in Medical Technology
- THOMA, JERRY J., M.S. (University of Notre Dame, 1971), Instructor in Medical Technology
- WENDLAND, PHYLLIS E., M.T. (ASCP, 1950), Lecturer in Medical Technology
- WINSTEAD, MARTHA E., M.S. (Indiana University, 1968), M.T. (ASCP, 1940), B.B. (1956), Instructor in Medical Technology

### ADJUNCT FACULTY

- ARNOLD, GERALDINE, A.B. (Butler University, 1956), R.P.T. (University of Iowa, 1945), Chief Physical Therapist, Veterans Administration Hospital, Indianapolis
- BENTON, JOANNE, B.S. (Emory University, 1956), R.R.A. (1959), Medical Record Administrator, Good Samaritan Hospital, Vincennes, Indiana
- BENZ, SONJA, A.A. (Bogan Junior College, Chicago, Illinois, 1967), R.R.A. (1967), Medical Record Administrator, Marion County General Hospital, Indianapolis, Indiana
- BRANDENBURG, DOREEN, B.A. (College of St. Scholastica, Duluth, Minnesota, 1962), R.R.A. (1962), Medical Record Consultant, Indiana Hospital Services, Indianapolis, Indiana
- CAMPBELL, BERNICE, B.S. (Indiana University, 1972), R.R.A. (1972), Medical Record Administrator, Oral Diagnostic Clinic, Indiana University Dental School, Indianapolis, Indiana
- CARTER, EVELYN, R.N. (St. Catharines General Hospital Nursing School, Ontario, Canada, 1940), R.R.A. (1952), Jewish Hospital, Cincinnati, Ohio
- COSTELLO, PEGGY, B.S. (Indiana University, 1969), R.R.A., Chief Medical Record Administrator, St. Vincent Hospital, Indianapolis
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### Academic Record

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