

## Division of Allied Health Sciences



## INDIANA UNIVERSITY AT BLOOMINGTON

- \*College of Arts and Sciences
  - School of Journalism
- \*School of Business<sup>1</sup>
- \*School of Continuing Studies<sup>2</sup>
- \*School of Education<sup>1</sup>
  - Division of General and Technical Studies<sup>3</sup>
- \*School of Health, Physical Education, and Recreation
- \*School of Law-Bloomington
- \*School of Music
- \*School of Optometry
- \*School of Public and Environmental Affairs
- \*Graduate School
- \*Graduate Library School
- \*University Division

## INDIANA UNIVERSITY-PURDUE UNIVERSITY AT INDIANAPOLIS

- \*School of Business<sup>1</sup>
- \*School of Continuing Studies<sup>2</sup>
- \*School of Dentistry
- \*School of Education<sup>1</sup>
- School of Engineering and Technology (Purdue University)
- \*Herron School of Art
- \*School of Law-Indianapolis
- \*School of Liberal Arts
- \*School of Medicine
  - \*Division of Allied Health Sciences
- \*School of Nursing
- \*School of Physical Education
- \*School of Public and Environmental Affairs
- School of Science (Purdue University)
- \*School of Social Work
- IUPUI University Division
- Columbus (Indiana) Campus of IUPUI

## THE REGIONAL CAMPUSES

Indiana University East (Richmond)  
Indiana University at Kokomo  
Indiana University Northwest (Gary)  
Indiana University at South Bend  
Indiana University Southeast (New Albany)  
Indiana University-Purdue University at Fort Wayne (IPFW)

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Bulletins for the divisions of the University marked (\*) above may be obtained from the Office of Records and Admissions, Student Services Building, Indiana University, Bloomington, Indiana 47405. (Please note that there are two Indiana University Schools of Law and be sure to specify whether you want a bulletin of the Bloomington or the Indianapolis School.)

IUPUI bulletins for Purdue programs and for the IUPUI University Division may be obtained by writing directly to those units on the Indianapolis campus.

Write directly to the individual regional campus for its bulletin.

<sup>1</sup> Two bulletins are issued: graduate and undergraduate.

<sup>2</sup> Brochures on the Independent Study Division, Labor Studies, External Degrees, and Real Estate Certification Program are available from this School (Owen Hall).

<sup>3</sup> Information concerning programs of the Division of General and Technical Studies may be obtained from the Division office, 317 East Second Street, Bloomington, Indiana 47405.

# Indiana University Bulletin

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## Division of Allied Health Sciences

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Indianapolis Campus 1980/81

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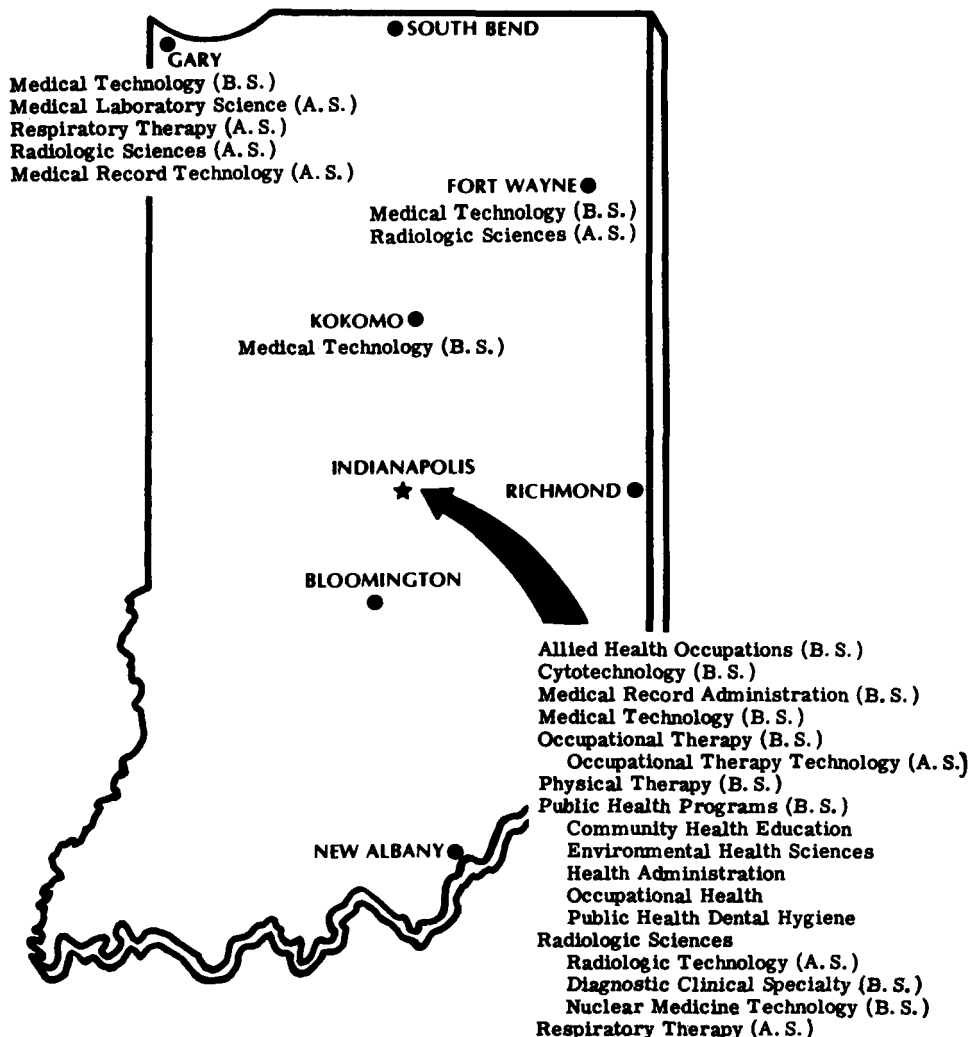
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# Indiana University

## Division of Allied Health Sciences Programs





# Division of Allied Health Sciences

The Division of Allied Health Sciences, Indiana University School of Medicine 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 Record 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 Radiologic Technology were initiated in 1969, and Allied Health Occupations in 1977.

In addition to the baccalaureate degree programs, the Division of Allied Health Sciences offers associate degree programs in Respiratory Therapy (1965), Radiologic Technology (1966), Occupational Therapy Technology (1970), Medical Laboratory Sciences (1976) (IUNW only), and Medical Record Technology (1976) (IU-Gary only).

Opportunities for graduate study are also available to allied health professionals outside of the Division. In 1971, a Master of Science in Allied Health Sciences Education was jointly approved by the School of Education and the School of Medicine to prepare teachers in the allied health professions.

The Graduate School offers options in the basic sciences to allied health graduates. Other graduate courses and degrees are also available through the School of Education. Because admission and degree requirements vary, a student seeking information about graduate opportunities should communicate with the Division of Allied Health Sciences, 1100 West Michigan Street, Indianapolis, Indiana 46223. Each student will be counseled individually through the Division of Allied Health Sciences in cooperation with the appropriate school or division.

## Philosophy of the Division of Allied Health Sciences.

"Allied health" is a term used to identify a group of technical and professional personnel who serve in patient care, health research, public health, and environmental health activities. The Division of Allied Health Sciences at Indiana University has as its primary purpose the quality preparation of these personnel, at the undergraduate level, with a focus on the well-being and welfare of the citizens they would serve.

Each program offered in the Division provides the allied health student with an opportunity to develop expertise, scientific knowledge, and professional attitudes which will enable him/her to contribute to the health of the society and obtain career satisfaction. The programs adhere to the specific professional guidelines or standards and are designed in collaboration with the appropriate accrediting bodies. All curricula are based upon a foundation in the liberal arts and sciences which is essential for an informed and productive life.

The faculty believes that the education of the various allied health personnel should follow a coordinated and logical interdisciplinary process based on a core body of knowledge which exists and is germane in practice in allied health careers. By sharing experiences related to a variety of activities, the student is introduced to others who have common, yet unique, educational interests. Appreciation of the contribution of each health discipline and interaction with peers and scholars in different health professions encourages the coordination of health planning and health services for people.

Education is perceived by the faculty as an evolving and continuing process which should result in an increased ability to think, reason and judge, leading to a satisfying and self-disciplined life. Effective education allows for individual differences, follows the laws of learning, and is provided in a participative atmosphere. It is believed that freedom of choice and meaningful assimilation of facts nurture the development of the students, enhance their

understanding of patients' and clients' problems, and promote a dedication to life-long self-evaluation and self-education.

Those responsible for the education of students in the Division and in its affiliated health service facilities are fully qualified in their fields of expertise and hold appropriate degrees and certification or licensure. In implementing the objectives of the Division, they strive to keep their own professional and teaching competencies current. The faculty is committed to the future in preparing uniquely qualified personnel who must meet the challenges of complex and ever-changing health care needs of society.

Candidates for the programs in the Division of Allied Health Sciences should have an interest in working with people and the solution of health problems. They should also have an aptitude for biological, behavioral, and physical sciences. Students are selected for admission on the basis of academic achievement, aptitude, and interest, without regard to race, religion, sex, national origin, or physical handicap. **Admission procedures are in strict compliance with all current state and federal nondiscrimination regulations.**

The graduates of the Division should be prepared to function as members of the health care team. They are expected to participate in community and professional activities. They should be aware of the legal, moral, and ethical responsibilities to their clients and employers and should serve them with skill, compassion, and loyalty. They should actively seek and contribute to new knowledge in their disciplines.

## 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:

- To provide education of the highest quality possible in the allied health fields and according to specifications established by registration or certification boards and professional organizations.

- To continually evaluate and where necessary implement changes in the allied health curricula.

- To search for and to develop new and improved educational programs, including specialty practices in allied health sciences to meet the needs in the delivery of health care.

- To provide continuing education and graduate education for post-graduate preparation in the allied health sciences.

- To encourage and support cooperation among health workers and health disciplines.

- To contribute intellectual and human resources to the institution, the state, and the professions, through research and consultation aimed at prevention of illness, and the promotion of health, its maintenance, rehabilitation, and restoration.

**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 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 Committee on Allied Health Education and Accreditation in collaboration with the appropriate professional organizations.

## Admission

For admission purposes, consideration is not given for physical education activity, or military sciences; however, these courses are included in the cumulative grade-point average. The pass/fail option cannot be applied in required courses. Except in instances where a student has chosen to follow the University FX policy or in the case of unusual circumstances, subject to review by the Division of Allied Health Sciences Admissions Committee, all courses that are repeated will be evaluated by averaging the grades received no matter how many times they may be retaken.

**A completed application for admission to the Division of Allied Health Sciences, regardless of program of choice, does not automatically indicate that the applicant has been or will be accepted.** Following a formal review and selection process conducted by the Admissions Committees, successful candidates will receive a "Letter of Acceptance" offering them a position in a specific class. Candidates who are granted a "Non-acceptance" or who are selected as "alternates," likewise will receive formal notification informing them of their status.

## Baccalaureate Programs

Students seeking admission to the baccalaureate degree programs of the Division of Allied Health Sciences must file an "Application for Admission to the Division of Allied Health Sciences" (with current academic transcripts) during the period, indicated on the application form, 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 46223.)**

A student is eligible to be considered for admission to a baccalaureate program when the student's transcript of work completed shows the reasonable probability that the pre-Allied Health Science 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 a cumulative grade-point average of at least C (2.0).

## Associate of Science Programs

Students seeking admission to the associate degree programs must file the *Application for Admission to the Division of Allied Health Sciences*. **(All completed applications are to be submitted by the applicant to the Office of the Division of Allied Health Sciences, 1100 W. Michigan Street, Indianapolis, IN 46223. Refer to specific program description for deadline for submitting applications.)**

## Academic Information

**Grades.** The letter grade codes and their specific definitions which are used by the Division are the same as those utilized by other academic units at Indiana University.

**Academic Probation.** Students are placed on academic probation for the duration of the semester succeeding the one in which they fail to earn a C (2.0) average, or when they fail to meet individual program academic standards. Students are informed of these program standards upon admission. Students will be removed from probation at the end of the probationary semester providing their cumulative 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 above reasons will be removed from this status on the basis of 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 appropriate 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 a student retained as a candidate for a professional degree. Students in the Division of Allied Health Sciences are dismissed when in the judgment of the Program faculty, in consultation with the Division Director, they fail to meet the academic and professional standards of the field of study. When they have failed to attain a C (2.0) average in any two consecutive semesters or have a

cumulative average below C (2.0) for two consecutive semesters; when they have failed to make higher than a D (1.0) average in any one semester; or failed to meet the additional specific academic standards of individual programs, they will be dismissed as not making progress toward a degree. Students may be asked to discontinue their field of study when they fail to show aptitude, fail to maintain a satisfactory level of performance or violate the University Code of Student Conduct.

**Readmission.** The faculty of the Program from which a student has been dismissed, in consultation with the Division of Allied Health Director, will consider petitions for readmission from students who have been dismissed. The student who has been dismissed will submit a 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 the intended efforts are in maintaining a satisfactory level of performance during the probationary period, if readmitted. The petitioner will be notified, in writing, of the action taken. If readmitted, a student will be granted one semester of probationary status in which to attain a satisfactory academic and professional level of performance.

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 reapply to the Division of Allied Health Sciences.

**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 him/herself 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 pre-Allied Health Core Curriculum<sup>1</sup>, (2) completion of a minimum of 122 semester hours of academic work including the specific professional requirements for the program pursued, (3) a minimum cumulative 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 upon two-year graduates of Occupational Therapy Technology, Radiologic Technology, and Respiratory Therapy Programs, Medical Laboratory Technology, and Medical Record Technology Programs.<sup>2</sup>

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, August, and December; however, commencement exercises are held only in May. Candidates for degrees in August may participate in the preceding May commencement exercises.

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

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<sup>1</sup>Allied Health Occupations students need not meet these requirements unless required by their Allied Health specialty program.

<sup>2</sup>For graduation requirements see the program specific descriptions found in this publication.

**Honors:** Allied Health students will be eligible to graduate with honors based upon the following criteria:

1. Calculation of the grade point for honors will be based upon the total number of hours attempted at Indiana University.
2. No more than ten (10) credit hours may be pass/fail.
3. Students transferring into Indiana University from other academic institutions cannot be considered for honors.
4. A minimum cumulative grade-point average of 3.5 must have been achieved to be eligible.
5. Three levels of distinction will be recognized and determined as follows:
  - 3.5 through 3.64—Distinction
  - 3.65 through 3.84—High Distinction
  - 3.85 through 4.00—Highest Distinction.
6. Unique cases and appeals should be forwarded to the Division of Allied Health Sciences' office for consideration.

## Curriculum

The curricular patterns of the Division of Allied Health Sciences vary with the professional fields of study. Curricula for baccalaureate programs 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.

### Pre-Allied Health Sciences Core Curriculum

All baccalaureate students<sup>1</sup> must complete the Pre-Allied Health Core Curriculum as listed below:

Public Speaking (Communications) (2-3 cr.)  
 English Composition (2-3 cr.)  
 Introductory Sociology (3 cr.)  
 Introductory Psychology (3 cr.)  
 College Algebra and Trigonometry<sup>2</sup> (3-5 cr.)  
 Animal Biology (Zoology) (4-5 cr.)  
 Elementary Chemistry<sup>3</sup> (with lab) (4-5 cr.)

**Prerequisite Requirements.** In addition to the Pre-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 some latitude in elective credits. Students should consult individual professional program presentations for suggested electives. They should also consult the *Bulletins* of other schools and of the campus on which they are enrolled for other courses that may be taken for elective credit.

<sup>1</sup> Allied Health Occupations students are not required to take the pre-Allied Health Core Curriculum unless required to do so by their professional allied health program.

<sup>2</sup> Students seeking admission to programs in Physical Therapy, Public Health, and Radiologic Sciences should consult the program description in this publication for specific mathematics requirements.

<sup>3</sup> Students in Medical Technology refer to the Medical Technology Program presentation for specific chemistry requirements.

## Medical Center

The Medical Center Campus occupies some 85 acres approximately one mile from the center of Indianapolis. The Medical Science Building, housing the six basic science departments and the medical library, offers every modern facility for medical education and research. The former School of Medicine building, now Emerson Hall, has been remodeled to accommodate the expanded clinical departments. In addition, the campus is the site of James William Fesler Hall, which houses the clinical laboratories, offices of the dean of medicine, director of allied health sciences, and offices and laboratories for the Departments of Anesthesia, Medicine, and Surgery. Also at the Center are the Administration, Building, Robert W. Long Hospital, William H. Coleman Hospital for Women, the new University Hospital, James Whitcomb Riley Hospital for Children with its connected wings for pediatrics and cancer research, Rotary Club Unit, Clinical Building, Ball Residence for Nurses, School of Nursing Building, School of Dentistry, Psychiatric Research Institute, Union Building with its attached dormitories for single students, Aldred S. Warthin Apartments for married students, and a service building.

Indiana University Hospitals have 574 beds, and in the fiscal year 1976-77 the clinics had 65,815 outpatient visits. The Wishard Memorial Hospital, adjoining the campus, offers clinical teaching facilities, as well as close affiliation in intern and resident training programs. The hospital has 640 beds and in 1977 its outpatient facility, the Regenstrief Health Center, had approximately 152,000 visits while its emergency rooms had approximately 67,000 visits. Clinical clerkships are likewise offered in the 725-bed United States Veterans Administration Hospital on the campus, in the United States Veterans Hospital on Cold Springs Road (both Dean's Committee Hospitals), in the 225-bed LaRue D. Carter Memorial Hospital, and, with departmental approval, in certain private hospitals and community hospitals throughout the state. The total number of beds on the Medical Center campus exceeds 2,100.

## Housing at Indianapolis

Application for housing at the Medical Center campus for IUPUI students may be obtained by writing to the Department of Housing, Single Student Dorm, 1300 West Michigan Street, Indianapolis, Indiana 46202. Space assignments are made on the basis of the date the application is received. The IUPUI Housing Office, located on the third floor of the Single Student Dorm Building, also maintains a file of *unapproved* 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. Norma Peele 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 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 (47 beds) and women are assigned to the second, third, fourth, and fifth floors (193 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 is 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. A rate sheet will be mailed when an application is requested.

*Unfurnished apartments* at the Medical Center for married students include efficiency and one-bedroom accommodations in the Warthin Apartment Building. Furnished apartments include efficiencies and one-bedroom accommodations in Warthin and one-bedroom apartments in the Union Building.

Rates are subject to change by action of the Board of Trustees.

## Student Activities at Indianapolis

**Student Activity Board.** The Student Activity Board consists of representatives from the schools and divisions of IUPUI. The coordinating office is in the Union Building, room M-102. The Board plans and conducts campus-wide activities such as free movies, canoe trips, dances, "coffee houses," ski trips, and the popular annual Reno Nite.

**Religious Activity.** The Medical Center chaplain's office is located in the cottages (264-7415). A chaplain is available for students of each faith to provide spiritual leadership to individuals and individual counseling on personal issues.

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 frequently visiting the city 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; delicatessen; 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 form the Indiana University School of Medicine Library, constituting the largest medical library in Indiana. The Library, located in the middle section of the first and basement floors of the Medical Science Building, includes in its collection a total of 116,236 carefully selected volumes of

professional literature, current subscriptions to 1,893 foreign and domestic serials, and 662 microfilm volumes. The current issues of some 400 most used serial titles, in addition to reference materials, indexes, encyclopedias, and dictionaries, are available for ready access on open shelves in the Reading Room. The Library is regularly open seven days a week.

Various services are extended by the Library. Instructional tours for individuals or small groups are available by appointment; a taped tour of the Library with color-coded map is also available. A brochure describing the Library and its services is available upon request, and a combination newsletter and booklist is issued bimonthly. Two online computer terminals, Bibliographic Retrieval Services, Inc. (BRS) and MED-LINE (MEDlars on-LINE) from the National Library of Medicine in Bethesda, Maryland, provide rapid access to bibliographic citations. Many data bases are accessible through these services. Liberal lending policies for books and bound and unbound serials apply to all qualified borrowers. A microfilm reader-printer and two coin-operated photocopiers are available for patrons' use. Students and faculty are encouraged to make recommendations for new titles, both books and serials, to be added to the Library's collection.

**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 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 has been organized to serve the health needs of students at IUPUI. The clinic is located on the first floor of Long Coleman Hospital at the Medical Center. Appointments may be made by calling the Health Service at 264-8214, or by going to the Health Service in person. The clinic is open to see patients Monday—Thursday: 8:30 a.m. to 8:00 p.m., and Friday 8:30 a.m. to 5:00 p.m.

Services in the Health Service, including professional attention, lab work, x-rays, and referral to specialty clinics, are provided free to full-time students. Prescriptions issued at the Health Service cost a maximum of \$3.00.

Part-time students may be seen in the Health Service for a per visit fee of \$5.00 or less. This charge includes the services of clinic professionals, lab work completed in the clinic, and medications or injections given in the Health Service. Any service performed outside the Health Service for which there is a charge is the financial responsibility of the part-time student.

After hours, weekends, and holidays full-time students will be seen in the Wishard Memorial Hospital emergency room. Bills for this service will be paid by the Health Service.

The University has also arranged for an optional insurance plan to cover students in the event of hospital confinement or treatment required at an emergency room for accidental injury. All IUPUI students are eligible to participate in this insurance plan.

**Officer Training Programs (ROTC)** Both Army and Air Force ROTC are available to IUPUI students. Completion of either program leads to a commission as a 2nd Lieutenant. Programs are available to both men and women. Courses are pursued in conjunction with academic curriculum and receive academic credit as electives. Placement credit is available to veterans and students with high school ROTC backgrounds. For information, contact Professor of Military Science (Army ROTC) (317) 264-2691 or Professor of Aerospace Studies (Air Force ROTC) (812) 337-4191.

**Career Information.** The Career Counseling, Placement and Professional Practices/COOP Office is located on the ground floor of the Union Building, 1300 W. Michigan. It is the University center for career counseling and on-campus interviewing and placement for full-time employment. This office also coordinates part-time and summer work opportuni-



ties, in addition to special cooperative education programs. It is especially important that students in the Division of Allied Health Sciences register with the Placement Center during their senior year since this is the only University office designed to maintain professional placement credentials.

**Nondiscrimination Policy.** Indiana University complies with all Federal regulations prohibiting discrimination on the basis of race, religion, national origin, sex, age, or handicap in matters pertaining to admission, employment, and access to programs. The University has an Affirmative Action Program and an Affirmative Action Office on each campus to ensure compliance with these regulations. Persons with questions regarding discrimination should contact the Affirmative Action Office on their campus.

## Financial Aid

The Financial Aid Program at IUPUI assists qualified students in continuing their education through scholarships, grants, loans, and employment. Allied Health students are encouraged to apply for the awards listed below by submitting an *Application For Financial Aid* and the required parental documents to the Financial Aid Office, 925 W. Michigan, Room 305, Indianapolis, Indiana 46202. The priority date for submitting applications is February 15 of the year prior to when assistance is required. Applications received after the priority date will be reviewed and aid awarded if funds are available. Additional information may be obtained by contacting the Financial Aid Office.

In addition to the awards listed below, Allied Health students may be eligible for special scholarships and loans. Information may be obtained by contacting the Division of Allied Health Sciences dean's office or specific program directors.

**Scholarships.** Merit Scholarships are awarded to students who have a 3.3 cumulative grade-point average and may be renewed with a 3.0 cumulative GPA.

**Grants.** Grants are available from the Federal government and the University to students who demonstrate financial need. Supplemental Educational Opportunity Grants range from \$200 to \$1,000 and must be matched with equal assistance in the form of scholarships, grants, loans, or University employment. University Grants range from \$100 to \$500.

The Basic Educational Opportunity Grant ranges from approximately \$100 to \$1,000. *A separate application is required and may be obtained from the Financial Aid Office.*

**Loans.** Loans are available to students who demonstrate financial need. IUPUI administers both the National Direct Student Loan and the Federally Insured Student Loan programs.

**Employment.** Students may earn a portion of their educational costs by working part-time on the College Work-Study Program. Eligibility for this program is also based on the financial need of the student.

**Child-of-Disabled Veteran Award.** Any student who has been a resident of Indiana for one year and whose parent has a service-connected disability or death is eligible for a partial remission of tuition.

**Aid 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 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**

## **Division Office**

**Director for Allied Health Sciences and Associate Dean of the School of Medicine,** Edward R. Pierce, Ph.D., M.P.H. (264-4702)

**Assistant Director,** Neil B. Apfelbaum, M.S. (264-4702)

**Division Recorder,** Shirley Romine (264-4702)

## **Program Directors**

**Allied Health Occupations (B.S.),** Walter Foegelle, M.S. (264-2701)

**Cytotechnology (B.S.),** Roger Wall, M.S. (264-3486)

**Medical Record Administration (B.S.),** Mary L. McKenzie, M.S. (264-7317)

**Medical Technology (B.S.),** Mary Feeley, Ed.S. (264-4076)

**Occupational Therapy (B.S.) (A.S.),** Carol Nathan, M.S. (264-8006)

**Physical Therapy (B.S.),** Dennis Dipert, M.S. (264-8913)

**Public Health Academic Programs (B.S.),** John M. Doty, Ph.D. (264-3527)

**Radiologic Sciences (B.S.) (A.S.),** Emily Schaaf, M.S. (264-3801)

**Respiratory Therapy (A.S.),** Joseph Koss, M.S. (264-7311)

## **INDIANA UNIVERSITY NORTHWEST**

**Acting Coordinator of Allied Health**

**Programs,** Arlene McKenna, B.S. (219-980-6542)

# Academic Programs in the Division of Allied Health Sciences

## Allied Health Occupations

*Director: Assistant Professor Foegelle*

*Assistant Professor Gable*

Allied Health Occupations is a management training, baccalaureate degree program offered on the Indianapolis campus. It is open only to experienced health specialists who are fully credentialed in their field. (Nurses are advised that the Bachelor of Science in Nursing is appropriate for nurses who wish to advance within nursing.)

The curriculum is founded on the belief that: (1) Managers within health specialty departments should be experienced, credentialed health specialists. (2) Managers within health specialty departments should be trained in the skills of management. (3) Health specialists who have met requirements for their credentials through hospital-based or other non-credit training programs should be granted credit toward a degree for their occupational competence and experience. (4) The health specialist manager should have a background in liberal arts and sciences. (5) Courses should be available to adult students on evenings and weekends. (6) The adult student should be able to complete all requirements for the degree without interrupting employment.

Program objectives enable the student to expand his knowledge beyond the technical level, broaden his general education base, and keep abreast of his field.

**Admission Procedure.** Applicants not previously admitted to the Indiana University system must file an Undergraduate Application with the Office of Admissions, IUPUI-Cavanaugh Hall 103, 925 West Michigan Street, Indianapolis, Indiana 46223. Send with this application, official transcripts from all colleges and universities attended and request that a copy of the Credit Transfer Report be sent to the Allied Health Occupations Office.

Applicants must also submit a complete application packet for admission to the Division of Allied Health Sciences' Allied Health Occupations Program. An application packet is complete when it contains all of the following items:

1. A completed "Application for Admission to the Division of Allied Health Sciences" form. (This form is available from the Allied Health Occupations Office.)
2. A current Indiana University Transcript or verification of acceptance to Indiana University and, where applicable, a Credit Transfer Report.
3. A completed Degree Plan Form. (This form is completed by program faculty during a personal interview. The student is responsible for setting up an interview appointment.)
4. A copy of the applicant's current registration, certification, or licensure in a health specialty.
5. Letters from employers validating post graduation/credentialing work experience.

**Degree Requirements.** A candidate for the Bachelor of Science degree in Allied Health Occupations, must meet the following requirements for graduation:

1. Qualify for matriculation in Indiana University.
2. Be fully credentialed in a health specialty and must be able to submit evidence that they are currently certified, registered or licensed by an appropriate organization.
3. Applicant must have completed the full-time equivalent of two years, post-graduation/credentialing work experience.

4. Remove all departmental conditions or probation.
5. Complete at least 126 semester hours of academic credit according to the following minimum requirements:
  - 45 hours in the general education area
  - 30 hours in the management concentration
  - 51 hours in the health specialty related area
  - 30 of the last 60 hours from Indiana University
  - 36 hours of Junior and Senior level courses (courses numbered 300 or higher)
6. Obtain a C or better in all work taken
7. Maintain a 2.5 average (Scale: A h 4.0)
8. File an "Intent to Graduate" form (done during the last regular semester of enrollment before graduation; form available from Allied Health Occupations Office)

## Curriculum

**General Education.** Credit requirement, 45 hours, as follows:

**Humanities.** Credit requirement, 15 hours

1. Required courses: English Composition, Philosophy, and Public Speaking.
2. Elective courses to balance to at least 15 hours selected from: Afro-American Studies, Classics, Comparative Literature, English, Fine Arts, Folklore, Foreign Language, Philosophy, Radio and Television, Religion, Speech, Theatre and Drama, Musicology, and Music History, as approved.

**Social and Behavioral Sciences.** Credit requirement, 15 hours

1. Required courses: American History, Political Sciences, Psychology, and Sociology.
2. Elective courses to balance to at least 15 hours selected from: Anthropology, Business, Economics, Environmental Studies, Non-physical Geography, History, Political Science, Psychology, Social Work, SPEA, and supervision, as approved.

**Life and Physical Sciences.** Credit requirement, 15 hours

1. Required courses: Mathematics (two courses).
2. Elective courses to balance to 15 hours selected from: Anatomy, Bioanthropology, Biology, Chemistry, Computer Science, Geology, Mathematics, Microbiology, Physical Geography, Physics, Physiology, Plant Sciences, and Zoology, as approved.

**Health Specialty.** Credit Requirement, 51 hours. Students who are Graduates of associate degree programs or other programs awarding academic credit may have previously earned *technical specialty* credits applied toward meeting this requirement. Graduates of non-credit programs who are certified, registered or licensed in their health specialty may be awarded up to thirty (30) semester hours of technical specialty course credit for their credentials and ten (10) credits for a minimum of three (3) full-time equivalent years of validated work experience in their field. Credit is awarded during the student's final semester. The student pays a filing fee for the awarding of this credit.

In all cases, the balance to 51 credits are electives, selected from courses that support, compliment or extend technical preparation, as approved.

**Management Concentration.** Credit requirement, 30 hours

**Required, sequenced course:**

1. AHLT X491 Introduction to Management Communications and Decision Making (2 credit hours) - Summer.
2. AHLT X494 Middle Management in Health Care Delivery I: Principles and Philosophies (4 credit hours) - Fall Semester.
3. AHLT X495 Middle Management in Health Care Delivery II: Methods and Relevance (3 credit hours) - Spring Semester.
4. AHLT X498 Seminar in Allied Health Occupations (2 credit hours) - Summer.
5. AHLT X499 Allied Health Occupations Practicum (variable 3-9 credit hours) - can be taken in Summer or Fall; may cover more than one semester depending on the project.

Elective courses to balance to at least 30 hours selected from: Business, Computer Science, Economics, Education, Mathematics, Philosophy, Political Science, Statistics, Supervision, or Writing, as approved.

**For Additional Information Contact Professor Walter E. Foegelle, Program Director Allied Health Occupations Program.**

## Cytotechnology

*Acting Medical Director: Assistant Professor Glant*

*Program Director: Assistant Professor Wall*

*Lecturers: Kerstetter, O'Brien*

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 cell samples from various body sites 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.

**Accreditation.** The curriculum of the Cytotechnology program is approved by the Committee on Allied Health Education and Accreditation of the American Medical Association.

**Admission Requirements.** All eligible students must apply for admission by January of the year for which they seek entrance to the program. The student must have met the following conditions before entering the professional program<sup>1</sup>:

1. Satisfactorily completed 90 semester hours including the Pre-Allied Health Sciences Core Curriculum and specific program prerequisites as stated below. Included in these 90 hours must be a minimum of 25 semester hours in the biological sciences.

2. Attain a cumulative grade-point average of 2.5 or better and a science grade-point average of 2.5 or better on a 4 point system.

3. Attain a grade of C or better in all of the program prerequisite courses.

4. Appear for an interview with the admissions committee of the Cytotechnology Program.

5. Must have completed the application to the Division of Allied Health.

6. Upon notification of acceptance into the program, a health form, immunization card and eye examination must be completed before the beginning of the professional year.

Note: Biology credits earned more than seven years prior to application must be updated by taking three additional semester hours related to cell biology within a period of time not to exceed 12 months prior to admission.

### Prerequisites

Chemistry beyond Core Curriculum (4 cr. minimum, 5-8 cr. preferred)

Human Anatomy-Physiology (5 cr. minimum, 10 cr. preferred)

Microbiology (with lab) (3 cr. minimum, 5 cr. preferred)

Developmental Anatomy<sup>2</sup> (3 cr. minimum, 5 cr. preferred)

Genetics<sup>2</sup> (3 cr. minimum, 5 cr. preferred)

<sup>1</sup>The student may apply for the program before all the conditions are completed.

<sup>2</sup> With permission of the program, an alternative course in the biological sciences may be accepted as replacement for one of these prerequisites.

### Electives

The following areas of study are recommended, but are not considered mandatory or inclusive: histology, cell physiology, medical microbiology, endocrinology, parasitology, virology, cytogenetics, computer sciences, management.

### Professional Program

General Medical Cytology AHLT A402 (3 cr.)  
 Hormonal Cytology AHLT A403 (3 cr.)  
 Gynecologic Cytology, Normal AHLT A412 (3 cr.)  
 Gynecologic Cytology, Abnormal AHLT A422 (3 cr.)  
 Techniques in Medical Cytology AHLT A462 (2 cr.)  
 Pulmonary Cytology AHLT A432 (3 cr.)  
 Cytology of Body Fluids AHLT A442 (2 cr.)  
 Cytology of the Gastrointestinal Tract AHLT A453 (2 cr.)  
 Urinary Tract Cytology AHLT A454 (2 cr.)  
 Fine Needle Aspiration Cytology AHLT A455 (2 cr.)  
 Seminar in Cytology AHLT A470 (cr. arr.)  
 Pathology C477 (2 cr.)  
 Certification Internship AHLT A465 (6 cr.)

For further information contact Professor Roger Wall, Program Director, Cytotechnology Program.

## Health Occupations Education

This program is currently undergoing a curriculum revision. For further information contact Professor Robert Harris, Department of Vocational Education, School of Education.

## Medical Record Administration

*Director: Associate Professor McKenzie*

*Associate Professor Ridley; Assistant Professors Ashton, Miller; Lecturer Helbert*

The medical record administrator is a vital member of the health care team. The role of this health professional includes administration of health information systems in accordance with the various medical, administrative, and legal requirements affecting health care delivery. The medical record administrator will plan, develop, and direct a system of medical records to aid in patient care, assist the medical and health facility staff in research and medical care evaluation. The administrator is also called upon to collect and analyze health care delivery data, manage the human resources of medical record services, and advise on medical administrative and medicolegal matters.

There are field trips and an affiliation with Indianapolis area hospitals included in the senior year. At the conclusion of the second semester, the student completes a one-month affiliation which may be assigned outside Indianapolis. The student is required to bear the cost of the field trips and the affiliation experiences.

**Accreditation.** The curriculum of the Medical Record Administration program is approved by the Committee on Allied Health Education and Accreditation of the American Medical Association in collaboration with the Committee on Education and Registration of the American Medical Record Association.

**Admission Requirements.** A student is considered eligible for admission to the professional program under the following conditions. The student must, in addition to the procedures for all division programs:

1. Appear for an interview with the program admissions committee.
2. Satisfactorily complete 90 semester hours in the Pre-Allied Health Sciences Core Curriculum, required program prerequisites, and electives. Please refer to the School of Business Bulletin for course descriptions of the business courses.

3. Attain a grade of C or better in anatomy, physiology, computer science, statistics, administrative systems, personnel management, and management of data systems or any course approved as a substitute.

A student enrolled in the senior professional program is required to maintain a grade of C or better in each course in order to be eligible for a degree in medical record administration.

Because some prerequisite courses are not currently offered at every campus, students must seek specialized program planning and waivers from the Director of the program.

#### **Prerequisites**

Pre-Allied Health Core Curriculum (27 cr.)

Sociology (3 cr.)

Professional Speaking or Discussion and Group Methods or Interpersonal Communications (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.)

Abnormal Psychology (3 cr.)

Statistics (3 cr.)

Office Management

Administrative Systems (3 cr.)

Typing (or proficiency) (2-3 cr.)

Management of Administrative Services (3 cr.)

Administrative Services Laboratory (1 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/Commercial 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, research methods, computer sciences, management accounting, economics, and administrative systems applications.

#### **Professional Program**

##### *First Semester*

Medical Record Science I AHLT M411  
(5 cr.)

Directed Practice Experience I AHLT M441  
(4 cr.)

Medical Terminology AHLT M330 (3 cr.)

Medical Care I AHLT W374 (3 cr.)

Medicine and the Law AHLT M445 (2 cr.)

**Total 17 cr.**

##### *Second Semester*

Hospital Organization and Management  
AHLT M322 (2 cr.)

Medical Care II AHLT W471 (3 cr.)

Pathology C477 (2 cr.)

Medical Record Science II AHLT M412  
(5 cr.)

Directed Practice Experience II  
AHLT M442 (6 cr.)

**Total 18 cr.**

For further information contact Professor Mary L. McKenzie, Program Director, Medical Record Administration Program.

## **Medical Technology**

*Director: Professor Nordschow*

*Professors Griep,Oei, Smith; Associate Professors Bonderman, Feeley (Associate Director), French, Hicks, Hocker, Moorehead, Wheeler; Assistant Professors Allen, Bartlett, Eitzen, Gartner, Glick, Kasper, Marler, Proksch, Young*

Medical technology is a science aimed at the quality performance of clinical laboratory procedures on biologic samples from patients. The medical technologist performs laboratory tests that reveal the presence or absence of abnormalities of blood, other fluids, and tissues of the body. In performing these laboratory tests, the medical technologist becomes adept in the operation and maintenance of various types of laboratory equipment such as chemical analyzers, electronic cell counters, and other sophisticated instruments. The medical technologist learns to make appropriate use of quality control measures and to correlate laboratory findings with clinical symptomatology for optimum patient care.

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 in the Clinical Laboratories at the Indiana University Medical Center.

**Accreditation.** The curriculum of the Medical Technology program is fully approved by the Committee on Allied Health Education and Accreditation of the American Medical Association.

**Admission Requirements.** The Division of Allied Health Sciences program in Medical Technology will consider all eligible students for admission to its integrated program offered in Indianapolis. Pre-Allied Health students interested in the Medical Technology program are advised that admission into the professional year is not guaranteed. The program is accredited for 32 students and each student applying for admission is evaluated according to the criteria listed below. The student must:

1. Satisfactorily complete 90 semester hours including the Pre-Allied Health Sciences Core Curriculum, specific required program prerequisites, and electives.
2. Satisfy the Pre-Allied Health core curriculum chemistry requirement by taking Principles of Chemistry (equivalent to I.U. Chemistry C105).
3. Attain a cumulative grade-point average of 2.5 or better.
4. Attain a grade of C or better in the required program prerequisites.
5. Appear for an interview with the admissions committee of the Medical Technology Program.
6. Prior to the starting date of the I.U. Division of Allied Health program, submit a complete transcript of his course work to the Office of the Medical Technology Program (1100 W. Michigan Street, Indianapolis, Indiana 46223) for verification by the Registrar 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.

#### **Prerequisites**

Principles of Chemistry (with lab) (4-5 cr.)  
 Organic Chemistry II (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, Genetics, or Biological Science Electives (3-4 cr.)  
 Basic Statistics (3 cr.)  
 Immunology (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: basic human anatomy, anthropology, developmental anatomy, introduction to computers, introductory clinical chemistry, endocrinology, medical terminology, psychology, virology, comparative anatomy, embryology.



### **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.)  
 Diagnostic Medical Microbiology AHLT C411 (6 cr.)  
 Parasitology AHLT C420 (2 cr.)  
 General Externship I AHLT C401 (2 cr.)  
 General Externship II AHLT C402 (2 cr.)  
 General Externship III AHLT C403 (2 cr.)  
 Topics in Medical Technology AHLT C412 (2 cr.)

**For further information contact Professor Mary Feeley, Associate Program Director Medical Technology Program.**

## **Non-University Hospital Accredited Professional Year Programs In Medical Technology**

The Division of Allied Health Sciences maintains affiliation agreements with professionally accredited Schools of Medical Technology throughout the state in order to assist qualified Pre-Allied Health students unable to gain admission into the Division's Medical Technology program professional year of clinical education. **Qualified students wishing to complete the professional year in one of these hospitals must apply directly to the hospital.**

**Students admitted to a professional year program in one of the hospital schools are not Indiana University students for that period of their clinical education.** Through the agreement with each hospital, students will be charged a fee not less than the current University tuition rate for 32 semester hours. Upon completion of the clinical year the hospital school in which a student is enrolled will submit to the University evidence of satisfactory completion of the hospital program. Upon validation of the student's completion of the hospital program and payment by the hospital of the University fee for special credit (\$5.00 per credit hour), the Division of Allied Health Sciences, School of Medicine will authorize the acceptance of 32 hours special credit toward an Indiana University degree.

A list of the hospital accredited programs with which the University affiliates can be obtained from the Division Office in Indianapolis.

## **Occupational Therapy**

*Director: Associate Professor Nathan*

*Associate Professors Farber, Hamant, Simek (Associate Director for OTT), Weeks, Assistant Professors Barrett, Carl, Instructors Hostetler, Kiel, Lamport; Lecturer (part-time) McNulty*

"Occupational therapy is the art and science of directing man's response to selected activity to promote and maintain health, to prevent disability, to evaluate behavior and to treat or train patients with physical or psychological dysfunction."

The term "selected activity" in the definition of occupational therapy is the key to the uniqueness of the field and relates directly to an individual's occupation. Occupation may be defined as those tasks which occupy the majority of one's time. Occupational therapy is concerned with the person biologically, psychologically, and socially, and provides services to those individuals whose ability to cope with the tasks of living is threatened or impaired. Using evaluative and therapeutic means, occupational therapy promotes meaningful performance throughout the life cycle and encourages a healthy balance of time spent in self-care, work, and play-leisure.

With increased use of health professionals in a variety of health, educational, and social settings, there is a growing need for occupational therapists (Certified/Registered Occupational Therapists) and assistants (Certified Occupational Therapy Assistants).

The Indiana University Occupational Therapy Program consists of the baccalaureate degree and associate degree. The location within a large urban medical center affords opportunity for clinical-academic interaction, as well as exposure to other community agencies. The program (the foundation for which is human development based on biological, psychological, social and medical function and dysfunction) attempts to balance and consolidate academic and practical learning. Instruction to baccalaureate degree and associate degree students is presented with differing emphasis on future needs.

The faculty is committed to creating a milieu for individualized learning and immediate application of knowledge. With an interest in teaching and the educational process it also assumes a responsibility for continuous program reevaluation, self-study, and research to maintain excellence in education and personal competence. The faculty strives to maintain clinical skills and to enhance mutual respect and inter-communication with field work practitioners, in order that the curriculum will reflect practice as its central theme. In assignment of course material an attempt is made to take advantage of individual expertise, allowing instructors to bring additional breadth and depth to the course content.

Traits that an applicant should possess include interpersonal and communication skills and an interest in human performance as it relates to health needs.

It is the responsibility of all graduates to maintain competency by participating in continuing education programs. It is expected that they will participate in both professional and community activities. They should be aware of and abide by legal, moral, and ethical responsibilities to their clients and employers and serve with skill, compassion, and loyalty.

**Field work experience** for both programs 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.

## **Baccalaureate Degree Program.**

The four-year baccalaureate degree program consists of sixty semester hours during the first two years, including specific division and program prerequisites, after which eligibility for the professional program is possible.

**Accreditation.** The Baccalaureate program in Occupational Therapy is accredited by the Accreditation Committee of the American Occupational Therapy Association in collaboration with the Committee on Allied Health Education and Accreditation of the American Medical Association.

**Admission.** Admission to the Occupational Therapy program at the Baccalaureate level is based on the cumulative grade-point average of previous college work and an on-site personal interview. Accepted students must successfully complete prerequisite courses prior to being eligible to begin the professional program. All entering students must successfully complete Introduction to Occupational Therapy, AHLT T203 (2 credits) prior to continuation in the professional program. This course is offered two weeks before the beginning of each Fall semester. Specific grade-point policies for continuation in the program are distributed to students with their letter of acceptance.

Graduates of the baccalaureate degree program are eligible to sit for the certification examination for 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 Certified/ Registered Occupational Therapist (OTR) to practice.

The Certified/Registered Occupational Therapist may work as an independent practitioner or as a member of a team of professional persons, each of whom has identifiable areas of expertise.

## Associate Degree Program.

**Admission.** The Associate Degree program is two years in length. The quality of prior academic performance and an on-site personal interview are considered in candidate selection. All entering students must successfully complete Introduction to Occupational Therapy, AHLT T203 (2 credits) prior to continuation in the program. This course is offered two weeks before the beginning of each Fall semester. All courses must be taken in sequence as published. Specific grade-point policies for continuation in the program are distributed to students with the letter of acceptance.

**Accreditation.** The Associate Degree program in Occupational Therapy Technology is approved by the Accreditation Committee of the American Occupational Therapy Association.

Graduates of the associate degree program are eligible for the certification examination leading to admission to the Registry of Occupational Therapy Assistants maintained by the American Occupational Therapy Association. Admission to the Registry is certification for the Certified Occupational Therapy Assistant (COTA) to practice.

The occupational therapy assistant is a technically qualified member of the health team who functions with the supervision or consultation of a certified/registered occupational therapist. The assistant accepts clinical responsibilities in hospitals, nursing homes, day care centers, rehabilitation centers, or those organizations directed to maintain health and socialization of its members.

## Occupational Therapy Program, Baccalaureate Degree

In addition to the Pre-Allied Health Core Curriculum, students must complete the prerequisite courses listed below in order to be considered eligible for admission to the Baccalaureate Occupational Therapy Program. Students eligible for admission must have completed a total of 60 semester hours including the Pre-Allied Health Core Curriculum, 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

Introduction to Occupational Therapy AHLT T203 (2 cr.)

(Offered two weeks prior to first semester)

#### First Semester

Medical Terminology AHLT S103 (1 cr.)

Biological, Psychological, Sociological

Development, AHLT T350 (6 cr.)

Functional Neuroanatomy, AHLT T450 (3 cr.)

Basic Occupational Therapy Techniques, AHLT T351 (3 cr.)

Medical Care I, AHLT W374 (3 cr.)

Practicum I, AHLT T324 (1 cr.)

**Total 17 cr.**

#### Second Semester

Theory and Practice I, AHLT T360 (6 cr.)

Advanced Occupational Therapy Techniques, AHLT T352 (3 cr.)

Clinical Psychiatry for Occupational Therapy, AHLT T300 (2 cr.)

Practicum II, AHLT T325 (1 cr.)

Medical Care II, AHLT W471 (3 cr.)

Kinesiology, AHLT W376 (3 cr.)

**Total 18 cr.**

**Fourth Year***First Semester*

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

Medical Care III, AHLT W472 (3 cr.)

Practicum in Group Dynamics, PSY B472 (3 cr.)

Practicum III, AHLT T426 (1 cr.)

Electives (3 cr.)

**Total 18 cr.****For further information contact Professor Carol Nathan, Program Director, Occupational Therapy Program.***Second Semester*Field Work Experience I, AHLT T495 (5 cr.)  
(3-month internship)Field Work Experience II, AHLT T496  
(5 cr.) (3-month internship)**Total 10 cr.****Occupational Therapy Program, Associate Degree****First Year**

Introduction to Occupational Theory AHLT T203 (2 cr.)

(Offered two weeks prior to first semester)

*First Semester*

Medical Terminology AHLT S103 (1 cr.)

Human Biology BIOL N212 (2 cr.)

Human Biology BIOL N213 (1 cr.)

Introduction to Occupational Therapy

Techniques I AHLT S101 (3 cr.)

Psychology B104 or B105 (3 cr.)

Sociology R100 (3 cr.)

Clinical Observation AHLT S131 (1 cr.)

English W117 (3 cr.)

**Total 17 cr.***Second Semester*

Human Biology BIOL N214 (2 cr.)

Human Biology BIOL N215 (1 cr.)

Introduction to Occupational Therapy

Techniques II AHLT S102 (3 cr.)

Abnormal Psychology PSY B380 (3 cr.)

Speech C110 (3 cr.)

Kinesiology, AHLT S160 (2 cr.)

Community Practicum AHLT S231 (1 cr.)

**Total 15 cr.****Second Year***Third Semester*

Social Agency Practicum AHLT S132

(1 cr.)

Medical Care I AHLT W374 (3 cr.)

Basic Occupational Therapy

Techniques AHLT T351 (3 cr.)

Biological, Psychological, Sociological

Development AHLT T350 (6 cr.)

Comprehensive Occupational Therapy

Assistant Techniques AHLT S204 (3 cr.)

Psychopathology PSY N303 (2 cr.)

**Total 18 cr.***Fourth Semester*

Medical Care II AHLT W471 (3 cr.)

Advanced Occupational Therapy

Techniques AHLT T352 (3 cr.)

Occupational Therapy Assistant

Theory I AHLT S251 (2 cr.)

Occupational Therapy Assistant

Theory II AHLT S252 (2 cr.)

Field Practicum AHLT S234 (2 cr.)

Clinic Management AHLT S272 (2 cr.)

Electives (Optional) (2 cr.)

**Total 14-16 cr.****Summer Session**

Field Work Experience I AHLT S291 (2 cr.)

Field Work Experience II AHLT S292 (2 cr.)

(two 6-8 week field work experiences in assigned occupational therapy clinical areas)

**For further information contact Professor Erna Simek, Associate Program Director for O.T.T. Program.****Physical Therapy***Director: Assistant Professor Dipert**Professor Emeritus Ekstam; Associate Professor Magee; Assistant Professors Howell, Killian, Ladue, Porter; Instructor Archer*

As a member of the health care team, the physical therapist administers treatment based on a thorough evaluation of the patient's status. The physical therapist participates in administrative, teaching, and research activities and provides consultative services. Physical therapy

service is provided in hospitals, outpatient treatment facilities, industrial clinics, governmental and voluntary health agencies, educational settings, extended care facilities, physicians' offices, and private practice settings.

The legal practice of physical therapy is regulated by the Indiana State Board of Medical Registration and Examination. Successful completion of the state examination entitles candidates to a physical therapist license provided they are United States citizens or have filed a declaration of intent to become citizens.

Clinical education occurs throughout the professional course of study in facilities located in Indiana and other states. The student is financially responsible for transportation to affiliating centers and for living costs at the center.

**Accreditation.** The Physical Therapy program is approved by the American Physical Therapy Association and by the Committee on Allied Health Education and Accreditation of the American Medical Association.

**Admission Requirements.** Admission is based on the overall grade point average, the mathematics and science grade point average, and an interview. The number of admissions each year is limited and completion of prerequisites does not guarantee admission. Prior to admission the student must complete the prerequisites and electives to total 64 credit hours exclusive of physical education and military science. To be considered the applicant must have received a minimum grade of C in each prerequisite course, and have a minimum cumulative average of 2.5 on a 4.0 scale in all attempted hours.

#### **Prerequisites**

(in addition to Pre-Allied Health Core Curriculum)

Sociology Elective (3 cr.)

Psychology Elective (3 cr.)

Human Anatomy (4-5 cr.)

Chemistry (with a laboratory and an introduction to organic chemistry) (4-5 cr.)

Physics (with a laboratory and covering heat, light, sound, electricity, and simple machines) (8-10 cr.)

Introductory Statistics (including descriptive and inferential statistics) (3 cr.)

Note: The statistics course is substituted for the Algebra-Trigonometry requirement listed as a Pre-Allied Health Core requirement.

The third and fourth year consist of professional studies at the Indiana University Medical Center, selected field work experiences at other medical facilities in Indiana and, on occasion, other states. At the time of this publication the program faculty were conducting a major curriculum revision, and specific course sequencing is therefore not presented here. Information concerning the professional curriculum may be obtained from the program office.

**For further information contact Professor Dennis Dipert, Program Director, Physical Therapy Program.**

## **Public Health Academic Programs**

*Director: Associate Professor Doty*

*Associate Professor Adams (Emeritus), Gish, Oldsen (Director, Dental Hygiene and Coordinator, Public Health Dental Hygiene); Assistant Professors Brittain, Fisk (Emeritus), McSwane (Coordinator, Community Health Education), Oleckno (Coordinator, Environmental Health Sciences), Shupe, Weaver, Instructors Martz, Smith*

Public Health Academic Programs offer five academic curricula leading to a baccalaureate degree in Public Health. The five professional fields include Community Health Education, Environmental Health Sciences, Health Administration, Occupational Health and Safety, and Public Health Dental Hygiene. These programs emphasize the preventive aspects needed to improve human health as well as the environments. The programs prepare the graduate for a wide variety of professions in the public and private sectors.

The academic curricula are designed to prepare students to make meaningful contributions toward the prevention of illness and the promotion of better planning and administration of community health programs. The curriculum is interdisciplinary in nature, providing the student with an understanding of: (a) the basic, biological, physical, and social sciences; (b) man and his health; (c) the interaction of man, his environment, and social structure; (d) the organization of health care and public health services; and (e) the application of this knowledge in community health programs. Professional courses build upon the students' basic knowledge and technical skills in their respective professional majors.

**Admission Requirements.** To be considered for admission to the program, the student must meet Division and program admission requirements as well as complete a program interview. Applicants must submit a Division of Allied Health Sciences application by *March 1* in order to be considered for entry into the program in the fall semester of that year.

Students will be eligible to enter the Public Health Academic Programs curriculum as juniors providing they have satisfactorily completed the aforementioned admission requirements and the following preprofessional and sophomore concentration course requirements.

**Required Preprofessional (Freshman) Courses.** The following courses, or their equivalents, are required of all candidates seeking admission to the B.S. in Public Health degree programs.

*Students planning to enter the Public Health Dental Hygiene area should refer to that section for requirements.*

Numbers in parentheses are IU-Bloomington course equivalents.

#### **Freshman Year**

##### **Semester I**

English Composition W117 (W131)

(3 cr.)

Chemistry I with laboratory<sup>1</sup> (5 cr.)

Sociology R100 (S100 or S101) (3 cr.)

Speech C110 (S121) (2-3 cr.)

Elective (2-3 cr.)

**Total 15-17 cr.**

##### **Semester II**

Finite Mathematics M118 (3 cr.)

Psychology B105 (P101) (3 cr.)

Chemistry II with laboratory<sup>2</sup> (5 cr.)

Elective (3-4 cr.)

**Total 14-15 cr.**

## **Public Health Professional Concentrations:**

Students planning on entering the Public Health Academic Programs will choose one of five professional concentrations: (1) *Community Health Education*; (2) *Environmental Health Sciences*; (3) *Health Administration*; (4) *Occupational Health and Safety*; and (5) *Public Health Dental Hygiene* prior to submitting an application for admission.

In addition to completing the freshman level courses, all students should complete all of the sophomore level courses listed under the professional concentration they have chosen prior to entering the program.

*Students planning to enter the Public Health Dental Hygiene area should refer to that section for requirements.*

<sup>1</sup>Chemistry C101 (C101 and C121) for Community Health Education, Environmental Health Sciences, and Health Administration majors; for Occupational Health and Safety majors, C105 (C105 and C125) with a minimum grade of "C", or C101 (C101 and C121) with a minimum grade of "A-".

<sup>2</sup>Chemistry C102 (C102 and C122) for Community Health Education, Environmental Health Sciences, and Health Administration majors; for Occupational Health and Safety majors, C106 (C106 and C126) with a minimum grade of "C", or C102 (C102 and C122) with a minimum grade of "A-".

## Community Health Education

The health educator's major aim is to help people understand what their health needs are and how to meet these needs as individuals of a group, family, community, or nation. Health educators help people to think critically and to make intelligent choices in their health behavior. They must be well grounded in the biological and social sciences, since they 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.

Graduates of this concentration area will be assisting individuals, groups and the community in the identification and clarification of their health needs; interpreting and demonstrating appropriate methods and responses needed to address health needs; promoting changes that lead to healthier individuals within healthier environments; creating a climate of trust so as to function efficiently in the dual roles of motivator and communicator; utilizing the various media and community resources to increase the sphere of influence of the health system and to facilitate the dispersal of health information in the community; and organizing community groups to support health planning and implementation.

In addition to the previous requirements, students must complete the professional courses listed below in order to graduate with a Bachelor of Science degree in Public Health with a major in Community Health Education.

**Note:** Field trips are required parts of the professional curriculum and students are advised that they must bear the costs associated with these activities. This training consists of supervised on-the-job practical experience with state and local departments of public health.

### Sophomore (Program Concentration Prerequisites)

#### *Semester I*

Animal Biology N107 (L105) (4-5 cr.)  
 Statistics 301 or K300 (3 cr.)  
 American Politics Y103 (3 cr.)  
 Verbal Communication J201 (J111) (3 cr.)  
 Introduction to Mass  
 Communication C200 (3 cr.)

**Total 16-17**

#### *Semester II*

Human Biology N212 & N213 (P130) (3-4 cr.)  
 Microbiology N251 (M200) (3 cr.)  
 Psychology II B104 (P102) (3 cr.)  
 Human Nutrition FN303 (H231) (3 cr.)  
 Professional Speech C223 (S223) (3 cr.)

**Total 15-16 cr.**

### Junior (Medical Center)

#### *Semester I*

Medical Care I W374 (3 cr.)  
 Organization of Health Education  
 H464 (2 cr.)  
 Health Organization & Issues H401 (3 cr.)  
 Educational Psychology for  
 all Grades P254 (3 cr.)  
 Professional Writing Skills W231 (3 cr.)  
 Elective (3 cr.)

**Total 17 cr.**

#### *Semester II*

Epidemiology H422 (3 cr.)  
 Public Health Education Methods  
 E443 (3 cr.)  
 Medical Care II W471 (3 cr.)  
 Group A Elective (3 cr.)  
 Elective (3 cr.)

**Total 15 cr.**

**Senior (Medical Center)***Semester I*

Community Health Education E442 (3 cr.)

Social Factors of Health R381 (3 cr.)

Public Health Elective (3 cr.)

Elective (3 cr.)

Community Health Education

Practicum I E465 (4 cr.)

**Total 16 cr.****Group Electives****Group A:***(Choose one of the following)*

Learning B344 (P325), 3 cr.

Motivation B356 (P327), 3 cr.

Fundamentals of Telecommunication

C250, 3 cr.

Speech Communication of Technical

Information C401, 3 cr.

Persuasion C321, 3 cr.

*Semester II*

Social Organization of Health

Care R382 (3 cr.)

Community R329 (3 cr.)

Group B Elective (3 cr.)

Elective (3 cr.)

Community Health Education

Practicum II E466 (4 cr.)

**Total 16 cr.****Group B:***(Choose one of the following)*

Child Development B360 (P312), 3 cr.

Social Psychology B370 (P420) or

R234 (S230), 3 cr.

Abnormal Psychology B380 (P329),

3 cr.

Race &amp; Ethnic Relations R461 (S335),

3 cr.

**Environmental Health Sciences**

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 unsanitary 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 specialist and will receive a Bachelor of Science degree from the School of Medicine. Upon graduation the student becomes eligible under Indiana law to be registered as a professional sanitarian in this specialty. Further, the student 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.

Graduates of this concentration area will be capable of the identification, analysis, and control of health hazards in man's environment, especially in the areas of potable water supplies, waste water treatment, water and air pollution, food manufacturing and retail distribution, solid waste management, radiation sources, industrial environments, and communicable disease control; performing basic monitoring surveillance of environment; interpretation and practical application of environmental and public health law; facilitating and communicating to the community the principles underlying the development of laws, regulations, and ordinances; environmental health program planning, evaluation, and im-



plementation; and promoting the public's general interest and understanding of health and well-being.

In addition to the previous requirements students must complete the professional courses listed below in order to graduate with a Bachelor of Science Degree in Public Health with a major in Environmental Health Sciences.

**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.

### **Sophomore (Program Concentration Prerequisites)**

#### *Semester I*

Animal Biology N107 (L105) (4-5 cr.)

Calculus M119 (3 cr.)

Political Science Y103 (3 cr.)

Physics 100 (P101) (4-5 cr.)

**Total 14-16 cr.**

#### *Semester II*

Human Biology N212 & N213 (P130) (3-4 cr.)

Statistics 301 or K300 (3 cr.)

Microbiology N251 (M200) (3 cr.)

Professional Writing Skills W231 (3 cr.)

Elective (3 cr.)

**Total 15-16 cr.**

### **Junior (Medical Center)**

#### *Semester I*

Health Organization & Issues H401 (3 cr.)

Water and Wastewater H432 (3 cr.)

Environmental Health

Instrumentation H460 (2 cr.)

Solid Waste Management H452 (2 cr.)

Environmental Health Option I<sup>1</sup> (3 cr.)

Elective (3 cr.)

**Total 16 cr.**

#### *Semester II*

Epidemiology H422 (3 cr.)

Food Service Sanitation RHI 210 (3 cr.)

Industrial Hygiene H450 (3 cr.)

Air Pollution H451 (3 cr.)

Environmental Health

Instrumentation II H461 (2 cr.)

Elective (3 cr.)

**Total 17 cr.**

### **Senior (Medical Center)**

#### *Semester I*

Radiological Health H455 (2 cr.)

Disease Vector Control H423 (2 cr.)

Environmental Health Functions

H421 (3 cr.)

Environmental Health Practicum I

H465 (4 cr.)

Electives (6 cr.)

**Total 17 cr.**

#### *Semester II*

Public Health Education Methods

E443 (3 cr.)

State Politics Y306 or Y307 (3 cr.)

Environmental Health Practicum II

H466 (4 cr.)

Environmental Health Option II<sup>2</sup> (3 cr.)

Elective (3 cr.)

**Total 16 cr.**

## **Health Administration**

There is a challenging future for business-oriented personnel in health administration procedures. The concern for health, in its varied aspects, has expanded so rapidly that specialists in functional areas such as finance, insurance, law, and general management are needed at all levels of government and in many private agencies. 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,

<sup>1</sup>Choose one (1) of the following courses:

Environmental Conservation G315, 3 cr.

Introduction to Oceanography G115, 3 cr.

Environment: Problems and Prospects V262, 3 cr.

Other course alternates may be elected with permission of the program counselor.

<sup>2</sup>Choose one (1) of the following courses:

Human Relations in Supervision SPV 252, 3 cr.

Survey of Administrative Techniques V270, 3 cr.

Problems in Public Policy Y378, 3 cr.

Other course alternates may be elected with permission of the program counselor.

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.

Health Administration graduates will be capable of utilizing and applying business principles in accounting, marketing, and economics to health service facilities; organizing and supervising personnel; analyzing, planning, and evaluating health care facilities and programs; coordinating health care service departments within hospitals, nursing homes, and related agencies and facilities; interacting with and understanding the functions of governmental and professional regulatory bodies; and interpreting and promoting health planning within the community.

In addition to the previous requirements, students must complete the professional courses listed below in order to graduate with a Bachelor of Science Degree in Public Health with a major in Health Administration:

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

#### **Sophomore (Program Concentration Prerequisites)**

##### *Semester I*

Animal Biology N107 (Z105) (4-5 cr.)

Survey of Calculus M119 (3 cr.)

Political Science Y103 (3 cr.)

Accounting I A201 (3 cr.)

Elective (3 cr.)

**Total 16-17 cr.**

##### *Semester II*

Human Biology N212 & N213 (P130) (3-4 cr.)

Statistics E370 (3 cr.)

Microeconomics E201 (E103) (3 cr.)

Accounting II A202 (3 cr.)

Elective (3 cr.)

**Total 15-16 cr.**

#### **Junior (Medical Center)**

##### *Semester I*

Computers in Business CSCI 201

(K201) (3 cr.)

Health Organization & Issues H401 (3 cr.)

Legal Environment of Business

L302 (L201) (3 cr.)

Medical Care Management I W374 (3 cr.)

Macroeconomics E202 (E104) (3 cr.)

**Total 15 cr.**

##### **Senior (Medical Center)**

##### *Semester I*

Organizational Behavior Z301 (3 cr.)

Management of Health

Organizations I B421 (3 cr.)

Hospital Administration B401 (3 cr.)

Practicum I B465 (4 cr.)

Elective (3 cr.)

**Total 16 cr.**

##### *Semester II*

Financial Management F301 (3 cr.)

Marketing M301 (3 cr.)

Operations Management P301 (3 cr.)

Medical Care II W471 (3 cr.)

Nursing Home Administration B411 (3 cr.)

**Total 15 cr.**

##### *Semester II*

Management and Organization

Theory W301 (3 cr.)

Management of Health

Organizations II B422 (3 cr.)

Social Factors of Health R381 (3 cr.)

Practicum II B466 (4 cr.)

Epidemiology H422 (3 cr.)

**Total 16 cr.**

## **Occupational Health and Safety**

Occupational Health and Safety is an interdisciplinary science relying heavily on the principles derived from the biological, health, and physical sciences. As a professional field, major emphasis is placed upon the control of man's working environment in order to prevent health and safety hazards from developing. Within the past decade, man has become acutely aware of the many types of health hazards that exist in the industrial environment. Thousands of deaths and millions of injuries which can be related to the

industrial environment have occurred each year. In 1970, the Occupational Safety and Health Act was passed by the federal government and has provided a mechanism for improvement of the worker's environment. Subsequently, major advances have been made in the identification, monitoring, and control of industrial environment health hazards as well as in the promotion of industrial safety.

Students who enter this program will be graduated as Occupational Health and Safety Specialists and will receive the Bachelor of Science degree. Upon graduation, the student becomes eligible for employment with federal, state, and local agencies whose functions involve health promotion and health hazards control in the work environment. Employment is also possible in industry and commerce. A survey of Indiana industries revealed a continuing need for occupational health and safety personnel. The same need has been demonstrated on a national level as well. Additionally, graduate training leading to advanced degrees in the field of occupational health and safety is available in 28 graduate schools throughout the United States.

With five years of working experience in the field of industrial hygiene, graduates of the program may become Certified Industrial Hygienists upon successful completion of the Industrial Hygiene Certification Examination.

Graduates of this concentration area will be capable of identifying, analyzing and promoting control of health and safety hazards in the work environment; designing and implementing monitoring surveillance programs; recommending procedures for controlling health and safety hazards using engineering principles in material handling, power systems, drafting, materials mechanics, and ventilation; planning, implementing, evaluating, and supervising occupational health and safety programs; and interacting with regulatory bodies.

In addition to the previous requirements, students must complete the professional courses listed below in order to graduate with a Bachelor of Science Degree in Public Health with a major in Occupational Health and Safety:

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

#### **Sophomore (Program Concentration Prerequisites)**

##### *Semester I*

Animal Biology N107 (L105) (4-5 cr.)

Calculus I M119 (3 cr.)

Organic Chemistry I C341 (3 cr.)

American Politics Y103 (3 cr.)

Elective (3 cr.)

**Total 16-17 cr.**

##### *Semester II*

Human Biology N212 & N213 (P130)

(3-4 cr.)

Statistics K300 or 301 (3 cr.)

Microbiology N251 (M200) (3 cr.)

Organic Chemistry II C342 (3 cr.)

Elective (3 cr.)

**Total 15-16 cr.**

#### **Junior (Medical Center)**

##### *Semester I*

Drafting EG 110 (3 cr.)

Organic Chemistry Laboratory C343 (2 cr.)

Materials and Processes MET 180 (2 cr.)

Industrial Organization IET 104 (3 cr.)

Physics I P218 (4 cr.)

Health Organization & Issues H401 (3 cr.)

**Total 17**

##### *Semester II*

Industrial Hygiene H450 (3 cr.)

Toxicology G410 (3 cr.)

Environmental Health

Instrumentation H461 (2 cr.)

Power Systems MET 200 (3 cr.)

Physics II P219 (4 cr.)

**Total 15**

#### **Senior (Medical Center)**

##### *Semester I*

Labor Legislation-Occupational

Health and Safety L390 (3 cr.)

Radiological Health H445 (2 cr.)

Heating, Ventilation, Air

Conditioning MET 360 (3 cr.)

Occupational Health Practicum I G465

(3 cr.)

Elective (3 cr.)

**Total 15**

##### *Semester II*

Epidemiology H422 (3 cr.)

Occupational Safety SPV 331 (3 cr.)

Basic Machining MET 335 (3 cr.)

Applied Statics MET 210 (3 cr.)

Occupational Health Practicum II G466

(4 cr.)

**Total 16**

## Public Health Dental Hygiene

The dental hygienist is a member of the health team who provides preventive, therapeutic, and educational oral health services. Employment opportunities may be available in private dental practice, hospitals, educational institutions, public health, and research.

The Public Health Dental Hygiene Program is one academic year in length and applicants to the program must have completed 90 semester credit hours, be graduates of an accredited dental hygiene program, and have satisfactorily completed the National Board Dental Hygiene Examination.

The objectives of the concentration in Public Health Dental Hygiene are designed to provide students with the education and skills to:

1. Perform dental hygiene skills in a variety of settings, e.g., private dental practice, public health clinics, school systems, institutions, and hospitals.
2. Design, implement, and evaluate a public health project.
3. Assist with the coordination of community health programs.
4. Implement effective preventive dental health programs for individuals and for groups in such settings as schools, hospitals, institutions and community programs.
5. Utilize epidemiologic methodology and principles of statistics.
6. Serve as a resource person and provide guidance to organized community groups, schools, and public health programs.
7. Work with other health personnel in assessing and providing health care needs to the public.
8. Implement effective teaching methodologies in an educational setting.
9. Prepare for admission to graduate programs.

Upon satisfactory completion of the Public Health Dental Hygiene curriculum, dental hygienists receive a Bachelor of Science Degree in Public Health with a major in Public Health-Dental Hygiene:

Additional information may be obtained by writing to Director, Dental Hygiene Program, Indiana University School of Dentistry, 1121 W. Michigan Street, Indianapolis, Indiana 46202.

### Fourth Year (Medical Center)

#### *I Semester*

Statistics H304 (2 cr.)  
 Health Organization & Issues H401 (3 cr.)  
 Community Health Education E442 (3 cr.)  
 Abnormal Psychology B308 (3 cr.)  
 Practicum I D465 (4 cr.)  
 Seminar D401 (2 cr.)  
**Total 17**

#### *II Semester*

Community Dental Hygiene D405 (3 cr.)  
 Epidemiology H422 (3 cr.)  
 Practicum II D466 (4 cr.)  
 Elective (3 cr.)  
**One of the following:**  
     Survey of Administrative  
         Techniques SPEA V270  
     Public Administration SPEA V366  
     Financial Management and  
         Budgeting SPEA V372 (3 cr.)  
**Total 16**

**For further information contact Professor John Doty, Program Director, Public Health Academic Programs.**

## Radiologic Sciences

*Director:* Professor Klatte

*Professor Wellman; Associate Professor Cockerill; Assistant Professors Appledorn, Kehrein (Coordinator, Baccalaureate Programs), Schaaf (Educational Coordinator); Instructors Baker, Burr, Rose, Yeager; Teaching Associate Hoover*

The Radiologic Sciences Program offers three program options to students interested in the diagnostic application of ionizing radiation and/or radionuclides. These options include an Associate of Science Degree in Radiologic Technology and Baccalaureate Degree options in either Diagnostic Clinical Specialty or Nuclear Medicine Technology.

## Associate Degree Program

Radiologic Technology is a science involving the medical use of x-rays in the diagnosis of disease. A radiologist is a physician specializing in this science, and a radiologic technologist (radiographer) 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 Sciences and is eligible to take the certification examination of the American Registry of Radiologic Technologists (ARRT) to become certified as a Registered Radiologic Technologist (R.T.)

**Admission.** Graduates of approved high schools and college students who are interested in an Allied Health Sciences profession are eligible to apply for admission to the Radiologic Technology program.

Admission to the Associate Degree program is based upon consideration of each applicant's high school and/or college grade point average, SAT scores, and a personal interview. The deadline for submitting applications is January 1 of each year.

**Accreditation.** The Associate Degree program in Radiologic Technology is fully approved by the Committee on Allied Health Education and Accreditation of the American Medical Association.

**For further information contact Professor Emily Schaaf, Educational Coordinator, Radiologic Sciences Program.**

### First Year

#### *Summer Session*

Orientation to Radiologic

Technology AHLT R100 (2 cr.)

Introduction to Clinical

Radiography AHLT R103 (2 cr.)

Medical Terminology AHLT R185 (1 cr.)

**Total 5 cr.**

#### *Fall Semester*

Radiologic Procedures I AHLT R101 (4 cr.)

Principles of Radiography I AHLT R102

(3 cr.)

Clinical Experience I AHLT R181 (1 cr.)

Algebra MATH 111 (3 cr.)

Human Biology BIOL N212 (2 cr.)

Human Biology BIOL N213 (1 cr.)

**Total 14 cr.**

#### *Spring Semester*

Radiographic Procedures II AHLT R201

(3 cr.)

Principles of Radiography II AHLT R202

(3 cr.)

Clinical Experience II AHLT R182 (3 cr.)

Human Biology N214 (2 cr.)

Human Biology N215 (1 cr.)

Physics Applied to Radiology AHLT R250

(3 cr.)

**Total 15 cr.**

**Second Year***Summer Session*

Clinical Experience III AHLT R281 (4 cr.)

**Total 4 cr.***Fall Semester*

Principles of Radiography III

AHLT R222 (3 cr.)

Pathology AHLT R200 (2 cr.)

Clinical Experience IV AHLT R282 (4 cr.)

English Composition ENG W131 (3 cr.)

Speech Communication SPCH C110 (3 cr.)

**Total 15 cr.***Spring Semester*

Radiation Biology and Protection in

Diagnostic Radiology AHLT R182 (1 cr.)

Radiographic Procedures III

AHLT R205 (3 cr.)

Clinical Experience V AHLT R283 (4 cr.)

Introductory Psychology PSY B104 or

B105 (3 cr.)

Introductory Sociology SOC R100 (3 cr.)

**Total 14 cr.***Summer Session*

Comprehensive Experience AHLT R290

(2 cr.)

**Total 2 cr.**

In addition to the Associate degree program in Radiologic Technology offered at the Indiana University School of Medicine, Indianapolis, a similar program is offered at the Indiana University Campus in Gary.

**Baccalaureate Program**

The baccalaureate degree program offers two clinical curricular options. The options include Diagnostic Clinical Specialty in Radiologic Technology and Nuclear Medicine Technology. Specific information concerning admission and degree requirements for each option is indicated below. Evidence of, or eligibility for registration by the American Registry of Radiologic Technologists is required for admission to the Diagnostic Clinical Specialty option while no previous medical registration is required for Nuclear Medicine Technology. A Bachelor of Science in Radiologic Sciences degree will be awarded upon successful completion of the Diagnostic Clinical Specialty or Nuclear Medicine Technology options.

**Diagnostic Clinical Specialty**

This program is designed to prepare qualified Diagnostic Clinical Specialty Technologists. The principle aim of the program is to provide students with educational experiences which will permit them to develop the competencies required to function effectively.

**Admission Requirements.** Admission to the program is based on the applicant's previous academic record, evidence of registration by the American Registry of Radiologic Technologists, and a personal interview. Students eligible for admission must have completed the Allied Health core curriculum and prerequisite courses as listed for degree requirements. Applicants who are eligible for, but have not yet taken the registry examination, may be admitted conditionally. Applicants not previously admitted to Indiana University should submit an application to the IUPUI Admissions Office, supplying transcripts from all post-secondary schools attended, and an Allied Health Science application to the Division of Allied Health Sciences office with transcripts of all post-secondary education attached. Applicants already admitted to the University should submit an Allied Health Science application to the Division of Allied Health Sciences office with transcripts of all post-secondary. The Allied Health application must be filed on or before January 1st. Applications received after January 1st will be considered when class positions occur.

**Prerequisites.** (in addition to the pre-Allied Health Core) Human Anatomy (with lab) (4-5 cr.), Human Physiology (with lab) (4-5 cr.)

**Electives.** Elective hours are to be selected by the student with counseling from the Program Coordinator. The amount of elective hours will differ for each student to complete a minimum of 122 credit hours of academic work for graduation.

**Technical Specialty.** This area is complete for applicants who have 50 semester hours of earned college credit in Radiologic Technology.

For those who lack earned college credit in Radiologic Technology, up to thirty (30) semester hours of technical specialty course credit may be awarded on the basis of registration in Radiologic Technology by the American Registry of Radiologic Technologists. Ten (10) semester hours may be granted for completion of a minimum of three years validated occupational experience in Radiologic Technology. The student must submit evidence of registration and letters from employers verifying three years occupational experience where applicable. Each applicant will be evaluated individually.

Students must select additional courses in Radiologic Sciences or in areas which support, complement, or extend their technical preparation if they lack 50 semester hours of earned college credit in Radiologic Technology.

### **Professional Program**

Medical Care I, AHLT W374 (3 cr.)

Medical Care II, AHLT W471 (3 cr.)

Seminar in Radiologic Technology, AHLT R407 (3 cr.)

Research in Radiologic Technology, AHLT R409 (3 cr.)

Advanced Clinical Practicum I, AHLT R401 (8 cr.)

Advanced Clinical Practicum II, AHLT R402 (8 cr.)

### **Nuclear Medicine Technology**

This program is designed to prepare qualified Nuclear Medicine Technologists. The principle aim of the program is to provide students with educational experiences which will permit them to develop the competencies required to function effectively as a Nuclear Medicine Technologist. The program is basically designed for those persons with no previous experience in Nuclear Medicine, although experienced technologists may apply for admission.

**Accreditation.** The bachelors degree option in Nuclear Medicine Technology is approved as an educational program by the Committee on Allied Health Education and Accreditation of the American Medical Association.

**Admission Requirements.** Admission to the program is based on the applicant's previous academic record and a personal interview. Applicants not previously admitted to Indiana University should submit an application to the IUPUI Admissions Office, supplying transcripts from all post-secondary schools attended; and submit an Allied Health Sciences application to the Division of Allied Health Sciences Office with transcripts of all post-secondary education attached. Applicants already admitted to the University should submit an Allied Health Sciences application to the Division of Allied Health Sciences Office with transcripts of all post-secondary education attached. The Allied Health Application must be filed on or before January 1st. Applications received after January 1st will be considered as class positions occur.

Students eligible for admission to Nuclear Medicine Technology must have completed a minimum total of 90 semester hours including the prerequisites listed below and electives.

**Prerequisites<sup>1</sup>** (in addition to the Pre-Allied Health Core)

Humanities Elective (3-5 cr.)

Social & Behavioral Sciences Elective (3 cr.)

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<sup>1</sup> For those who have attended approved certificate programs in Radiologic Technology where academic credit was not awarded, up to thirty (30) semester hours of technical specialty course credit may be awarded on the basis of registration in Radiologic Technology by the American Registry of Radiologic Technologists. Up to ten (10) semester hours may be granted for registration in Nuclear Medicine Technology. Ten (10) semester hours may be granted for completion of a minimum of three years validated occupational experience in Radiologic Technology. The student must submit evidence of registration and letters from employers verifying three years of occupational experience where applicable. Each applicant will be evaluated individually.

*Life and Physical Sciences (40 semester hours)*

Elementary Chemistry II (with lab) (4-5 cr.)

Physics (with lab) (5-8 cr.)

(One or two courses, depending on course content)

Human Anatomy (with lab) (3-5 cr.)

Human Physiology (with lab) (4-5 cr.)

Mathematics - College Algebra, Trigonometry, Finite, or Calculus (3 cr.) (Students who have completed 5 cr. of Mathematics in the Pre Allied Health Core are exempt from the Mathematics prerequisite. Total Mathematics requirement is 5-6 cr.).

Life & Physical Sciences Electives (plus pre-Allied Health courses in these areas to total 40 credits.) Elective areas include:

Selected Allied Health, Anatomy, Biology, Chemistry, Genetics, Mathematics, Microbiology, Nursing, Pathology, Pharmacology, Physiology and Physics.

**Electives (32 semester hours)** The following is a list of suggested elective areas. It is not meant to be inclusive or mandatory:

Selected Allied Health courses, Medical Terminology, Introduction to Computers, Psychology, Sociology, Microbiology, Genetics, Statistics, Anthropology, Philosophy, Education, Supervision, Ethics, etc.

Students who have not fulfilled the prerequisites may be admitted to University Division. When students satisfactorily fulfill those requirements, they may apply for admission to the Nuclear Medicine Technology Program.

**Professional Program**

Physics and Instrumentation of Nuclear Medicine I, AHLT R412 (3 cr.)

Physics and Instrumentation of Nuclear Medicine II, AHLT R417 (3 cr.)

Radionuclide Measurements, AHLT R427 (2 cr.)

Radiopharmaceuticals, AHLT R427 (2 cr.)

In Vivo and In Vitro Studies I, AHLT R430 (1 cr.)

In Vivo and In Vitro Studies II, AHLT R431 (1 cr.)

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

Radiation Protection in Nuclear Medicine, AHLT R437 (1 cr.)

Radiobiology in Nuclear Medicine, AHLT R440 (1 cr.)

Clinical Nuclear Medicine Practicum I, AHLT R445 (5 cr.)

Clinical Nuclear Medicine Practicum II, AHLT R446 (5 cr.)

Clinical Nuclear Medicine Practicum III, AHLT R447 (6 cr.)

The 33 credits as listed above are obtained within a 12-month period and fulfill eligibility requirements for the registry examination in Nuclear Medicine Technology.

**For further information contact Professor Suetta Kehrein, Baccalaureate Coordinator, Radiologic Science Programs.**

## Respiratory Therapy

*Director: Associate Professor Koss*

*Professor LoSasso (Medical Director); Assistant Professor Wright, (Clinical Coordinator); Instructors Christoph, Freeman, Krejci, Miller, Sprinkle; Lecturers Bailey, Beardslee, Bouer-sox, Brumbaugh, Dunkin, Eigen, Garret, Gibbs, Goodrich, Gresham, Miller, Moorthy, Rus-kowski, Schreiner*

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 for Respiratory Therapy and upon passing, become Registered Respiratory Therapists (RRT).

**Accreditation.** The program is approved by the Committee on Allied Health Education and Accreditation of the American Medical Association in collaboration with the Joint Review Committee for Respiratory Therapy Education.

**Admission Requirements.** Acceptance to the program is based upon the student's grade-point average and the results of a personal interview. The Respiratory Therapy Admissions Committee will interview applicants in February to help select those who will begin their professional courses during the summer session. Enrollment is limited; applicants should submit their applications to the Division of Allied Health Sciences before December 31 and should be able to complete all prerequisite courses prior to entry into the professional program in June (summer session).

High school students who anticipate entering college in the Fall should inquire about curriculum changes early in their senior year. Advanced standing may be considered on an individual basis for accepted transfer students from other respiratory therapist programs.

**For further information contact Professor Joseph Koss, Program Director, Respiratory Therapy Program.**

### **Course Outline**

#### **Prerequisites (First Year)**

##### *Fall Semester*

Anatomy N261 or A215 (5 cr.)  
 Physics P100 or P101 (5-4 cr.)  
 English Composition W131 or W231 (3 cr.)  
 Algebra and/or Trigonometry M111 or  
 Higher Level Math Course (3-5 cr.)  
**Total 15 cr.**

##### *Spring Semester*

Physiology N217 or P215 (5 cr.)  
 Chemistry C101 (5 cr.) or C101 (2 cr.)  
 & C121 (2 cr.) (4 cr.)  
 Microbiology J200 or M200 (3 cr.)  
 Medical Terminology AHLT R185 (1 cr.)  
**Total 14 cr.**

#### **Professional Program (Second Year)**

##### *Summer Session*

Introduction to Respiratory Therapy F205 (2 cr.)  
 Gas Therapy AHLT F270 (3 cr.)  
 Cardiopulmonary Physiology AHLT F242 (2 cr.)  
 Respiratory Therapy Clinical Education I AHLT F211 (1 cr.)  
 Cardiopulmonary Resuscitation and Airway Management AHLT F271 (1 cr.)  
**Total 9 cr.**

##### *Fall Semester:*

Pharmacology, PHAR B216 (3 cr.)  
 Medical Care I, AHLT F374 (3 cr.)  
 Respiratory Therapy Treatment  
 Modalities AHLT F243 (2 cr.)  
 Diagnostic Testing & Monitoring  
 AHLT F253 (2 cr.)  
 Respiratory Therapy Clinical  
 Education II, AHLT F212 (3 cr.)  
 Public Speaking (2 cr.)  
**Total 15 cr.**

##### *Spring Semester:*

Principles of Ventilation AHLT F273 (4 cr.)  
 Cardiopulmonary Pathophysiology  
 AHLT F272 (3 cr.)  
 Respiratory Therapy Management  
 AHLT F259 (2 cr.)  
 Respiratory Therapy Clinical  
 Education III AHLT F213 (4 cr.)  
 Medical Care II AHLT W471 (3 cr.)  
**Total 16 cr.**

##### *Summer Session*

Respiratory Therapy Clinical Education IV AHLT F258 (3 cr.)

## **Master's Program In Allied Health Sciences Education**

This program is currently undergoing a curriculum revision. For further information contact Professor Robert Harris, Department of Vocational Education, School of Education.

# Division Of Allied Health Sciences Programs at Indiana University Northwest

## Program Office

**Director of Allied Health, Edward R. Pierce, Associate Dean School of Medicine,** (317) 264-4702

**Acting Coordinator, Arlene McKenna, B.S.,** (219) 980-6542

The Division of Allied Health Sciences is currently offering associate degree programs in the following disciplines: Medical Laboratory Sciences, Medical Record Technology, Radiologic Technology, Respiratory Therapy.

The nature of the IUN Programs follows the basic structure of programs described earlier in this text. Concentration options are developed utilizing hospital resources in the Gary area for clinical training and the campus resources of Indiana University Northwest.

Complete information on the Division and its programs may be obtained by contacting:

Professor Arlene McKenna, Acting Coordinator  
Division of Allied Health Sciences  
Indiana University Northwest  
3400 Broadway  
Gary, Indiana 46408  
Telephone (219) 980-6542

**Admission Procedure.** Application for any Allied Health Program at the Northwest Campus is a two-step procedure.

1. Application and admission to Indiana University, University Division must be completed first.

2. After being admitted to University Division, an Allied Health application may be secured from the Office of Admissions or the Allied Health Division.

All Allied Health applications must be submitted no later than March 15 of the year the student hopes to begin work in an allied health program. (Respiratory Therapy has some variation. See that section for specifics.)

Admission to Indiana University Northwest does not constitute automatic admission to an Allied Health program. The number of clinical facilities participating jointly in the program accounts for the limited class enrollments and necessitates a selection process. Selection committees for each of the programs review high school and college transcripts and request interviews with prospective students prior to final selection.

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

The programs in Medical Laboratory Technology, Medical Record Technology, Radiologic Technology and Respiratory Therapy are, in addition, fully approved by the Committee on Allied Health Education and Accreditation of the American Medical Association in collaboration with the appropriate professional organizations.

**Cost.** The cost of the Associate degree programs are based on credit hours and paid on a semester basis. Program costs would include tuition, books and uniforms. Students are responsible for transportation costs and living expenses.

## Medical Laboratory Sciences—MLT

(Medical Laboratory Technician, Associate of Science Degree)

Acting Director: Julie Scholl

The Medical Laboratory Sciences Program is, at the time of this printing, undergoing curricular revisions. For specific program information please write or phone the Division of Allied Health at the Northwest campus.

Applications for this program should be requested from the office of the Division of Allied Health Sciences, Indiana University Northwest, 3400 Broadway, Gary, Indiana, 46408 before March 15. New courses begin each August. Students are selected on the basis of their previous educational qualifications and a personal interview.

The high school requirement for the Medical Laboratory Sciences is chemistry or an equivalent chemistry course.

## Medical Record Technology

*Director: Assistant Professor Skurka*

*Adjunct Clinical Coordinator Wellman.*

A medical record is a permanent document of the history and progress of one person's illness or injury made to preserve information of medical, scientific, legal, and planning value.

A medical record technician generally works in the medical record department of a hospital, clinic, extended care facility, or nursing home. Some of the functions are the following: supervising within the medical record department; taking records to court; maintaining flow of health information to all departments of the hospital; supervising file clerks; supervising medical transcriptionists; compiling statistics of many kinds; reviewing medical records for completeness and accuracy; translating disease and operation terms into proper coding symbols; operating a tumor registry; assisting the medical staff by preparing special studies and tabulating data from records for research, and in medical care evaluation studies and utilization review activities.

The curriculum of the Medical Record Technology Program is accredited by the American Medical Association Committee on Allied Health Education and Accreditation in collaboration with the American Medical Record Association. A student, upon successful completion of this two-year program, will be eligible to take a national accreditation examination. Upon passing this, the student may use the initials A.R.T., Accredited Record Technician, and becomes a member of a growing health profession.

Applications for this program should be requested from the office of the Division of Allied Health Sciences, Indiana University Northwest, 3400 Broadway, Gary, Indiana, 46408 before March 15. New courses begin each August. Students are selected on the basis of their previous educational qualifications and a personal interview.

### Two-Year Semester Sequence

#### *Fall Semester*

<sup>1</sup>AHSP M195 Medical Terminology (3 cr.)

ENG W131 Elementary Composition I  
(3 cr.)

PHSL P261 Human Anatomy and  
Physiology I (4 cr.)

PHSL P263 Topics for Medical  
Record Technology (1 cr.)

PSY P101 Introductory Psychology I (3 cr.)

**Total 14 cr.**

#### *Spring Semester*

PHSL P264 Topics for Medical  
Record Technology (1 cr.)

PHSL P262 Human Anatomy and  
Physiology II (4 cr.)

<sup>1</sup>AHSP M101 Medical Record Science I  
(4 cr.)

SPCH S121 Public Speaking (3 cr.)

SOC S161 Principles of Sociology (3 cr.)  
Elective — (3 cr.)

**Total 18 cr.**

<sup>1</sup> Core Course: A grade of C or higher is required for graduation.

*Summer Session (7 weeks)*<sup>1</sup>AHSP M104 Directed Practice in Medical Record Science I (4 cr.)<sup>1</sup>AHSP M107 Medical Transcription (Lab) (2 cr.)**Total 6 cr.***Fall Semester*

TBUS K100 Introduction to Data

Processing Fundamentals (3 cr.)

<sup>1</sup>AHSP M102 Medical Record Science II (4 cr.)<sup>1</sup>AHSP M105 Directed Practice in Medical Record Science II (5 cr.)<sup>1</sup>AHSP M120 Statistics for Medical Record Science (2 cr.)

Elective (3 cr.)

**Total 17 cr.***Spring Semester*

AHSP M200 Office Organization (3 cr.)

<sup>1</sup>AHSP M103 Medical Record Science III (4 cr.)<sup>1</sup>AHSP M106 Directed Practice in Medical Record Science III (2 cr.)<sup>1</sup>AHSP M145 Legal Aspects of Medical Record Science (2 cr.)<sup>1</sup>BUS Z301 Organizational Behavior and Leadership (3 cr.)<sup>1</sup>PATH C477 Pathology (3 cr.)**Total 17 cr.**

Suggested Elective: W231, Professional Writing Skills

## Radiologic Technology Program

*Director: Assistant Professor McKenna**Instructor Edmond**Adjunct Clinical Instructors Getch, Mosqueda, Schmidl, Slaughter, Wilson*

Radiology is a science involving the medical use of x-rays, radium, and radioactive isotopes in the diagnosis and treatment of disease. A radiologic technologist is the technical assistant to the radiologist. Subspecialization in areas of nuclear medicine and radiation therapy are possible for the technologist.

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

The program is approved by the Council on Medical Education of the American Medical Association, is being offered in response to local needs for radiologic technologists. It is a 24-month, full-time program consisting of technical instruction, clinical experience, and general education subjects.

Upon successful completion of the program, students are eligible to take the examination of the American Registry of Radiologic Technologists.

Applications for this program should be requested from the office of the Division of Allied Health Sciences, Indiana University Northwest, 3400 Broadway, Gary, Indiana 46408 before March 15. New courses begin each August. Students are selected on the basis of their previous educational qualifications and a personal interview.

The high school requirements for the Radiologic Technology Program are algebra and geometry. Physics, biology, and four years of English are desirable, but not required.

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<sup>1</sup>Core Course: A grade of C or higher is required for graduation from this program.

**Two-Year Semester Sequence***Summer Session II*

MATH M100 Basic Mathematics (4 cr.)

<sup>1</sup>AHLT R185 Medical Terminology (1 cr.)**Total 5 cr.***Fall Semester*<sup>1</sup>AHLT R100 Orientation to Radiologic Technology (2 cr.)<sup>1</sup>AHLT R101 Radiographic Procedures I (4 cr.)<sup>1</sup>AHLT R102 Principles of Radiography I (3 cr.)<sup>1</sup>AHLT R181 Clinical Experience I (2 cr.)

PHSL P261 Human Anatomy &amp; Physiology I (4 cr.)

PHSL P263 Topics for Radiologic Technologists (1 cr.)

**Total 16 cr.***Summer Sessions I and II*<sup>1</sup>AHLT R Radiation Protection/Biology (2 cr.)<sup>1</sup>AHLT R281 Clinical Experience III (4 cr.)**Total 6 cr.***Fall Semester*<sup>1</sup>AHLT R205 Radiographic Procedures III (3 cr.)<sup>1</sup>AHLT R222 Principles of Radiography III (3 cr.)<sup>1</sup>AHLT R250 Physics Applied to Radiography (3 cr.)<sup>1</sup>AHLT R282 Clinical Experience IV (3 cr.)

ENG W131 English Composition I (3 cr.)

**Total 15 cr.***Summer Sessions I and II*<sup>1</sup>AHLT R290 Comprehensive Experience (4 cr.)**Total Credit Hours 72***Spring Semester*<sup>1</sup>AHLT R201 Radiographic Procedures II (3 cr.)<sup>1</sup>AHLT R202 Principles of Radiography II (3 cr.)<sup>1</sup>AHLT R182 Clinical Experience II (3 cr.)

PHSL P262 Human Anatomy &amp; Physiology II (4 cr.)

**Total 13 cr.***Spring Semester*<sup>1</sup>AHLT R283 Clinical Experience V (4 cr.)

PATH C477 Pathology (3 cr.)

SPCH S122 Interpersonal Communications (3 cr.)

PSY P101 Introductory Psychology (3 cr.)

**Total 13 cr.**

## Respiratory Therapy

*Director: Assistant Professor Neff**Adjunct Clinical Instructors Banham, Erickson, Green, and Wasilewski*

Respiratory therapy is a program in which individuals receive training in the treatment, management, control, and care of patients with deficiencies and abnormalities associated with respiration. Proper care of patients is emphasized in all phases of the program. It involves the therapeutic use of medical gases, air and oxygen-administering apparatus, environmental control systems, humidification and aerosols, drugs and medications, ventilatory assistance

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<sup>1</sup>Core Course

and ventilatory control, postural drainage, chest physiotherapy and breathing exercise, respiratory rehabilitation, assist with cardiopulmonary resuscitation, and maintenance of natural, artificial, and mechanical airways.

Specific testing techniques are learned in respiratory therapy to assist in diagnosis, monitoring, treatment, and research. This includes measurement of ventilatory volumes, pressure and flows, and blood gas analyses.

Students are admitted directly into the second year, the professional year of the program, upon successful completion of the first-year course requirements.

Applications for this program should be requested from the office of the Division of Allied Health Sciences, Indiana University Northwest, 3400 Broadway, Gary, Indiana, 46408 before March 15. New courses begin each May. Students are selected on the basis of their previous educational qualifications and a personal interview.

The high school requirements for the Respiratory Therapy Program are one year of chemistry and two years of algebra. Physics is desirable but not required.

### **Two-Year Semester Sequence**

First-Year Courses (suggested sequence)

#### *Fall Semester*

ENG W131 Elementary Composition I  
(3 cr.)  
PHYS P101 <sup>1</sup>Physics in the Modern World I  
(4 cr.)  
PHSL P261 <sup>1</sup>Human Anatomy and Physiology I (4 cr.)  
PHSL P263 Topics for Respiratory Therapy (1 cr.)  
MATH M014 <sup>1</sup>Basic Algebra (4 cr.)  
**Total 16 cr.**

#### *Spring Semester*

PHSL P262 <sup>1</sup>Human Anatomy and Physiology II (4 cr.)  
PHSL P263 Topics for Respiratory Therapy (1 cr.)  
CHEM C101 <sup>1</sup>Elementary Chemistry I (3 cr.)  
CHEM C121 <sup>1</sup>Elementary Chemistry Lab (2 cr.)  
BIOL M120 <sup>1</sup>Introductory Microbiology (3 cr.)  
BIOL M121 <sup>1</sup>Introductory Microbiology Lab (1 cr.)  
AHLT R185 Medical Terminology (1 cr.)  
**Total 15 cr.**

### **Second-Year Courses**

#### *Summer Session I*

AHLT F205 Introduction to Respiratory Therapy I (3 cr.)  
AHLT F270 Gas Therapy (2 cr.)  
AHLT F271 <sup>1</sup>Resuscitation and Airway Management (1 cr.)  
**Total 6 cr.**

#### *Summer Session II*

AHLT F202 <sup>1</sup>Respiratory Therapy II (3 cr.)  
AHLT F105 <sup>1</sup>Pharmacology (2 cr.)  
AHLT F181 <sup>1</sup>Clinical Education I (24 hrs./wk. x 7 = 168 hours) (2 cr.)  
**Total 7 cr.**

#### *Fall Semester*

AHLT F272 <sup>1</sup>Cardiopulmonary Pathophysiology (3 cr.)  
AHLT F273 <sup>1</sup>Principles of Ventilators (4 cr.)  
AHLT F253 <sup>1</sup>Diagnostic Testing & Monitoring (5 cr.)  
AHLT F182 <sup>1</sup>Clinical Education II (24 hrs./wk. x 14 = 336 hours) (4 cr.)  
(Christmas break: 9 days = 72 hours)  
**Total 16 cr.**

#### *Spring Semester*

AHLT F274 <sup>1</sup>Pediatric Respiratory Care (2 cr.)  
AHLT F275 <sup>1</sup>Comprehensive Clinical Education III (32 hrs./wk. x 14 = 448 hours) (5 cr.)  
PSY P101 Introductory Psychology I (3 cr.)  
Elective (3 cr.)  
**Total 13 cr.**

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<sup>1</sup> Core Course: A grade of C or higher is required for graduation from this program.

# Courses Offered, 1980-81

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  
**AHSP C**—Medical Laboratory Technology (CLA)  
**AHSP D**—Hospital Dietary Technology  
**AHLT D**—Public Health Dental Hygiene  
**AHLT E**—Community Health Education  
**AHLT F**—Respiratory Therapy  
**AHLT G**—Occupational Health and Safety  
**AHLT H**—Environmental Health Sciences  
**AHLT M**—Medical Record Administration  
**AHSP M**—Medical Record Technology  
**AHLT P**—Physical Therapy  
**AHLT R**—Radiologic Technology  
**AHTL S**—Occupational Therapy Technology  
**AHLT T**—Occupational Therapy  
**AHLT W**—Interdisciplinary Courses  
**AHLT X**—Allied Health Occupations  
**AHTL Z**—Health Occupations Education  
**AHLT Z**—Master's Program in Allied Health Sciences Education  
**AHSP L**—Medical Laboratory Technology (MLT)

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.

## 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 Medical Care I (3 cr.)** The student will be given an understanding of selected diseases and conditions of all age groups and the medical and/or surgical management of these conditions.

**AHLT W376 Kinesiology (3 cr.)** Analysis and synthesis of human motion.

**AHLT W471 Medical Care II (3 cr.)** The student will be given an understanding of selected diseases and conditions of all age groups and the medical and/or surgical management of these conditions.

**AHLT W472 Medical Care III (3 cr.)** Lectures and clinical presentation in orthopedics and neurology.

## Allied Health Occupations

### Administrative Option:

**AHLT X491 Introduction to Management Communications and Decision-Making (2 cr.)**

**AHLT X494 Middle Management in Health Care Delivery I: Principles and Philosophies (4 cr.)** P: Consent of Instructor. Overview and elements of departmental administrative/supervisory management in health care delivery systems.



**AHLT X495 Middle Management in Health Care Delivery II: Methods and Relevance (3 cr.)** P: AHLT X494 and consent of instructor. Uses and practices of health care middle management in contemporary society. Emphasis is placed on recent and impending legislation and current trends and issues in health care delivery as they effect the role and effectiveness of the health care middle manager.

**AHLT X498 Seminar in Allied Health Occupations (1-4 cr.)** P: Basic courses in core curriculum of the student's area of concentration and consent of instructor. Exploration of current problems, topics, and trends in allied health. Includes field analysis, literature, review, and discussion. May be repeated if topic is significantly different with a maximum of four credits applicable toward meeting degree requirements.

**AHLT X499 Allied Health Occupations: Internship/Practicum (3-9 cr.)** P: Consent of advisor. Structured practical experience in a health service facility or educational institution. Each internship/practicum is tailored to student's needs and job expectations as designed and supervised by the faculty in conjunction with cooperating agencies.

### **Education Option**

Courses with EDUC prefixes are offered by the School of Education.

**EDUC S497 Principles and Purposes of Health Occupations in Vocational Programs (3 cr.)** P: H340, P249. Historical, legislative, and theoretical foundations of health occupations training and service. Emphasis on various curricular organizations. (Offered on IUPUI campus only)

**EDUC V496 Foundations of Vocational Education (3 cr.)** Comprehensive survey of the foundations of vocational education. Includes principles and practices in providing vocational, including occupational and career education, programs.

**EDUC M486 Student Teaching in Health Occupations Education Programs (9 cr.)** P: EDUC M477, two years technical experience in health specialty. Each student assumes responsibility under a supervising teacher for teaching in his subject matter area in a cooperating post-secondary or technical program.

**AHLT H259 Occupational Competency (1-40 cr.)** Credit from a health occupation technical program satisfying established certification, licensure, or registration requirements in a given health field.

**AHLT Z490 Workshop in Health Occupations Programs (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.

**AHLT Z532 Overview of the Health Fields (3 cr.)** Study of the professions, services and trends influencing future developments in health fields: class discussions; field visits to health agencies; and interviews with practicing health professionals. (Offered on IUPUI campus S, SSI)

### **Cytotechnology**

**AHLT A402 General Medical Cytology (3 cr.)** Basic features of cellular morphology, cellular physiology, cytogenetics, and cell changes seen with radiation and chemotherapy as related to medical cytology; cancer cells presented through lecture, laboratory study demonstrations.

**AHLT A403 Hormonal Cytology (3 cr.)** The anatomic histologic and physiologic properties of endocrine tissues and their cytologic influence on the epithelium of the female genital tract.

**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 various gynecologic sites. Course enables student to diagnose cancer and precancerous pathologic entities through changes in cell morphology.

**AHLT A432 Pulmonary Cytology (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 A453 Cytology of the Gastrointestinal Tract (2 cr.)** Study of cells associated with nonmalignant and malignant diseases of the gastrointestinal tract, including the oral cavity, esophagus, stomach, and small and large intestines.
- AHLT A454 Urinary Tract Cytology (2 cr.)** Clinical cytologic study of cells from normal, nonmalignant, and malignant diseases of the urinary tract, to include the urethra, ureters, renal pelvis, bladder, prostate, seminal vesicles, and kidney.
- AHLT A455 Fine Needle Aspiration Cytology (2 cr.)** The study of nonmalignant and malignant cells aspirated from lung, thyroid and salivary glands, breast, liver, prostate, lymph nodes, soft tissue masses, and other organs.
- AHLT A462 Techniques in Medical Cytology (2 cr.)** Fixation and staining procedures, preparation of smears and cell blocks from fluids and other exfoliates; use of millipore filter techniques 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 the School of Education *Bulletin* for 1980-81.

## Medical Laboratory Technology

The following courses are offered at Indiana University-Northwest Only

- AHSP C101 Anatomy and Physiology I (CLA) (2 cr.)** Integrated study of anatomy and physiology of the human body as it relates to the clinical laboratory. Emphasis on the major systems of the body.
- AHSP C121 Chemistry I (CLA) (3 cr.)** Basic laboratory chemistry; clinical chemistry, introduction to organic chemistry, basic instrumentation including use of instruments, pipetting, solution preparation, and titration.
- AHSP C122 Chemistry II (CLA) (3 cr.)** P: AHSP C121. Medical laboratory techniques; introduction to quality control, gravimetric methods, preparation of protein-free filtrates, titrimetric and colorimetric procedures, and care of chemistry equipment.
- AHSP C123 Chemistry III (CLA) (1 cr.)** P: AHSP C122. Introduction to automated laboratory equipment, spectrophotometric procedures (visible and flame); micro and macro techniques for enzyme and liver function tests.
- AHSP L201 Chemistry IV (MLT) (2 cr.)** P: Successful completion of CLA Program. Advanced quality control procedures. Enzyme analysis, blood gases and electrolytes, chromatography and electrophoresis, protein fractions and lipo proteins, trace metals in medicine, multiphasic screening.
- AHSP C131 Hematology I (CLA) (2 cr.)** The blood: formation, composition, and function. Cell counting, coagulation and anemias.
- AHSP C132 Hematology II (CLA) (3 cr.)** P: AHSP C131. Obtaining blood specimens and staining techniques. Manual methods of cell counting, normal and abnormal blood cells, basic coagulation tests, and reticulocyte counts.
- AHSP C133 Hematology III (CLA) (1 cr.)** P: AHSP C132. Introduction to automated cell-counting equipment. Hemoglobin and blood cell indices, sickle cell testing, and quality control procedures.
- AHSP C140 Immunohematology I (CLA) (2 cr.)** Principles of blood transfusions. Antibody formation and reactions. Blood grouping and Rh typing.
- AHSP C141 Immunohematology II (CLA) (1 cr.)** P: AHSP C140. Use of human red cells for antibody screening and blood bank quality control. Transfusion service, including screening and preparation of donors and clinical records.
- AHSP C201 Advanced Laboratory Techniques I (MLT) (2 cr.)** P: Successful completion of CLA Program, kidney function and hormone tests; blood transfusion therapy; hepatitis testing; advanced laboratory techniques in bacteriology, mycology, and parasitology.

- AHSP C202 Advanced Laboratory Techniques II (MLT) (2 cr.)** P: Successful completion of CLA Program. Hematopoiesis and identification of cells; classification of anemias, hemoglobinopathies, and electrophoresis. Electrical cell-counting equipment; hemoglobin derivatives; the leukemias, coagulation testing (advanced); and introduction to radioisotopes.
- AHSP C151 Biological Science I (CLA) (2 cr.)** Basis bacteriology. Media preparation and sterilization, collection and handling of specimens, and inoculation of media.
- AHSP C152 Biological Science II (CLA) (3 cr.)** P: AHSP C151. General aseptic techniques; staining, isolation, and identification of common respiratory pathogens and intrococci, and antibiotic sensitivity testing, basic mycology.
- AHSP C153 Biological Science III (CLA) (1 cr.)** P: AHSP C152. Fundamentals of quality control for bacteriology, seriology, and parasitology departments. Serology and tests for syphilis. Parasitology examinations and identification of common human parasites.
- AHSP C161 Miscellaneous Body Fluids I (CLA) (2 cr.)** Introduction to routine analysis; tests for sugar, ketones, and proteins.
- AHSP C162 Miscellaneous Body Fluids II (CLA) (2 cr.)** P: AHSP C161. Chemistry tests for urinalysis, study of urine sediment, and fundamentals of kidney function tests.
- AHSP C163 Miscellaneous Body Fluids II (CLA) (1 cr.)** P: AHSP C162. Analysis of gastric and body fluid examinations.
- AHSP C190 Immunology (CLA) (1 cr.)** Orientation to the hospital; medical and paramedical professions. Personal and professional conduct of the laboratory technician. Introduction to use of human blood and products.
- AHSP C195 Medical Terminology (CLA) (2 cr.)** Introduction of the origin and derivation of medical words as well as their meaning. Includes use of the medical dictionary.
- AHSP C181 Clinical Education I (CLA) (3 cr.)** Clinical application of laboratory procedures in all departments of the medical laboratory under the direct supervision of a registered Medical Laboratory Technologist to attain an established proficiency.
- AHSP C182 Clinical Education II (CLA) (4 cr.)** Clinical application of laboratory procedures in all departments of the medical laboratory under the direct supervision of a registered Medical Laboratory Technologist to attain an established proficiency.
- AHSP C183 Clinical Education III (CLA) (3 cr.)** Clinical application of laboratory procedures in all departments of the medical laboratory under the direct supervision of a registered Medical Laboratory Technologist to attain an established proficiency.
- AHSP C281 Clinical Education IV (MLT) (2 cr.)** Clinical application of laboratory procedures in all departments of the medical laboratory under the direct supervision of a registered Medical Laboratory Technologist to attain an established proficiency.
- AHSP C282 Clinical Education V (MLT) (2 cr.)** Clinical application of laboratory procedures in all departments of the medical laboratory under the direct supervision of a registered Medical Laboratory Technologist to attain an established proficiency.

## 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 his/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 Record Technology

The following courses are offered at Indiana University-Northwest only.

**AHSP M145 Legal Aspects of Medical Record Science (2 cr.)** Presentation of concepts of law in medical and/or health-related areas as applied to the physician, the hospital, health institutions, the medical record, and the individual health worker.

**AHSP M101 Medical Record Science I (4 cr.) (3 lecture hrs.—2 lab hrs.)** Introduction to the health care field and direct care institutions; history of medicine in medical records; content, form securing, numbering, and filing of medical records; and the role of the medical record technician in a health-related institution.

**AHSP M102 Medical Record Science II (4 cr.) (3 lecture hrs.—2 lab hrs.)** Methods of preservation and indexing of medical records; nomenclatures; coding and classification systems. Emphasis on proficiency in coding and classification systems.

**AHSP M103 Medical Record Science III (4 cr.) (3 lecture hrs.—2 lab hrs.)** Medical staff organization and committee relationships to medical records, release of information, ancillary and nursing home medical record systems, space planning for medical record services in a health-related facility, medical care evaluation, utilization review, and PSRO.

**AHSP M104 Directed Practice in Medical Record Science (4 cr.)** Directed experience in securing, filing, and analyzing the medical record.

**AHSP M105 Directed Practice in Medical Record Science II (5 cr.)** Directed experience in microfilming and other medical record storage systems; nomenclatures, coding, classification, and completion of vital statistics.

**AHSP M106 Directed Practice in Medical Record Science III (2 cr.)** Directed experience in completion of patient care and utilization statistics. Additional experience to meet the student needs as evaluated by the instructor.

**AHSP M107 Medical Transcription (2 cr.) (4 lab hrs.)** Practice in transcription of medical reports and correspondence related to the medical record. Emphasis on understanding, speed, and skills in use of transcription and typing equipment.

**AHSP M120 Statistics for Medical Record Science (2 cr.)** Methods of collection of statistical data reflecting patient care and utilization of services; procedures of completion of vital statistics on birth, death, and reportable diseases.

**AHSP M195 Medical Terminology for Medical Record Technicians (3 cr.) (2 lecture hrs.—2 lab hrs.)** Understanding and use of medical-professional vocabulary; emphasis on speaking, reading, and writing skills.

## Medical Technology

**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. Student rotates through various areas of clinical hematology and coagulation.

**AHLT C403 General Externship III (2 cr.)** Supervised clinical experience in clinical microbiology. Student rotates through various areas of microbiology, serology, and parasitology.

**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.
- The following medical technology courses are offered intermittently and are NOT part of the standard curriculum:**
- AHLT C420 Parasitology for Medical Technologists (2 cr.)** Required for medical technologists; laboratory procedures and identification of the larger parasites of man. This course is "equivalent" to J420 as taught 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 offer 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 hematology 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.I., 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 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 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.

## Occupational Therapy

- AHLT S101 Introduction to Occupational Therapy Techniques I (3 cr.)** Exploration of line, color, form, and texture in nature and in two-dimensional representations as related to the psychological-physiological implications of the creative process, talent, and development of craftsmanship.
- AHLT S102 Introduction to Occupational Therapy Techniques II (3 cr.)** Incorporation and adaption of a variety of activities in the occupational therapy treatment program. Emphasis on developing observational, analytical, adaptational skills, and group process.
- AHLT S103 Medical Terminology (1 cr.)** Introduction of origin and derivation of medical words as well as their meaning. Programmed text.
- AHLT S131 Clinical Observation (1 cr.)** Overview of occupational therapy programs in a variety of facilities. Emphasis on observation skills, note-writing skills, and therapeutic use of self.
- AHLT S132 Social Agency Practicum (1 cr.)** Orientation to volunteer services and supervised experience in local community agencies.
- AHLT S160 Kinesiology (2 cr.)** Analysis of human motion with emphasis on the range of motion and muscle strength related to occupational performance.
- AHLT T203 Introduction to Occupational Therapy (2 cr.)** An intensive two-week course that examines the concept of occupational therapy and establishes a philosophical foundation for the professional course work.
- AHLT S204 Comprehensive Occupational Therapy Assistant Techniques (3 cr.)** Laboratory course which provides supervised learning experiences in a variety of skills used by the assistant necessary to carrying out treatment procedures.
- AHLT S231 Community Practicum (1 cr.)** Role identification as an occupational therapy assistant relating to community agencies and health disciplines.
- AHLT S234 Field Practicum (2 cr.)** Supervised patient/client contact in psycho-social and physical dysfunction occupational therapy facilities. Emphasis on screening, evaluation, treatment planning and implementation.
- AHLT S251 Occupational Therapy Assistant Theory I (2 cr.)** Assistant level theory in management of clinical psycho-social cases referred to occupational therapy. Includes prevention, initial screening, evaluation, planning, and implementation.
- AHLT S252 Occupational Therapy Assistant Theory II (2 cr.)** Assistant level theory in management of clinical physical dysfunction cases referred to occupational therapy. Includes prevention, initial screening, evaluation, planning, and implementation.
- AHLT S272 Clinical Management (2 cr.)** Instruction in clinic administration including organization, planning, controlling and evaluation. Course includes health care system with emphasis on the roles of the occupational therapy assistant.
- AHLT S291 Field Work Experience I (2 cr.)** Six to eight weeks of continuous participation in an occupational therapy clinic.

- AHLT S292 Field Work Experience II (2 cr.)** An additional six to eight weeks of continuous participation in an occupational therapy clinic.
- AHLT T300 Clinical Psychiatry for Occupational Therapy (2 cr.)** Review and expansion of major psychiatric disorders including nomenclature, clinical description, etiology, medical management and treatment. Clinical team approach and legal issues of psychiatry are presented.
- AHLT T324 Practicum I (1 cr.)** Study and exposure to the resources and needs of the community in relation to the practice of occupational therapy using a problem solving process.
- AHLT T325 Practicum II (1 cr.)** Clinical observation and practice of occupational therapy skills and theory presented in the theory and skills course.
- AHLT T350 Biological, Psychological, Sociological Development (6 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 the learning of skills relevant to each development level.
- AHLT T351 Basic Occupational Therapy Techniques (3 cr.)** Laboratory course that provides occupational therapy students supervised learning experiences in woodworking, crafts, and teaching techniques.
- AHLT T352 Advanced Occupational Therapy Techniques (3 cr.)** Laboratory class in skills necessary to plan and carry out treatment such as activities of daily living, prosthetics splinting and other therapeutic modalities.
- AHLT T360 Theory and Practice (6 cr.)** Basic principles of the occupational therapy treatment process in psychiatry and physical disabilities including a general section on research and professional writing.
- AHLT T426 Practicum III (1 cr.)** Continuation of AHLT T325.
- AHLT T450 Functional Neuroanatomy (3 cr.)** Major functional concepts of neuroanatomy presented in longitudinal systems with implications for abnormality and subsequent therapy treatment.
- AHLT T453 Independent Study (1-5 cr.)** Special electives in occupational therapy offered by occupational therapy faculty and clinicians.
- AHLT T460 Theory and Practice II (1 cr.)** Treatment implementations and management of occupational therapy services in a variety of health care facilities.
- AHLT T495 Field Work Experience I (5 cr.)** Three-month internship.
- AHLT T496 Field Work Experience II (5 cr.)** Three-month internship.

## 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 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 Academic Programs

### Community Health Education

- 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 Community Health Education Practicum I (4 cr.)** Supervised orientation and observation of public health functions in a variety of official and voluntary health agencies. Objectives and responsibilities in public health sub-specialties emphasized.
- AHLT E466 Community Health Education Practicum II (4 cr.)** Supervised advanced training in professional and technical functions in health education concentrating on specific health education programs; program development, implementation and evaluation emphasis.

### 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 H401 Health Organization and Issues (3 cr.)** Historical development and objectives of community health emphasizing structure, legal and financial aspects, professional functions, and program planning and evaluation of public health. Included also is a review of current health problems and issues, including such areas as mental health, alcohol and drug abuse, nutrition, chronic disease, and environmental pollution.
- 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 programs 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 Disease Vector Control (2 cr.)** Survey of animal and insect disease vectors and economic pests of public health significance; vector and pest identification and control procedures; and survey of the classification, application, and restriction of pesticides in controlling disease vectors and economic pests commonly found in the U.S.



- AHLT H432 Water Supply and Wastewater Treatment I (3 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 (2 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 Hygiene (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 (2 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 (2 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 (4 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 (4 cr.)** Supervised advanced training in professional and technical functions in environmental health; guided student activity and performance in professional environmental health functions.
- 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 B411 Nursing Home Administration I and II (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 B421 Management in Health Organizations I (3 cr.)** Analysis of major management policies in health organizations; evaluation of quantitative data for health planning, program development, fiscal management and internal communications control.
- AHLT B422 Management in Health Organizations II (3 cr.)** Executive and professional staff interaction and responsibilities; management by objectives; special administrative topics in mental health, health insurance and health-related agencies.
- AHLT B465 Health Administration Practicum I (4 cr.)** Supervised orientation and observational training in selected health agencies emphasizing organizational, administrative, fiscal and personnel management at the departmental level.
- AHLT B466 Health Administration Practicum II (4 cr.)** Supervised management performance training in various phases of health administration at the management level in selected health care and health related facilities.

## Occupational Health and Safety

**AHLT G410 Industrial Toxicology (3 cr.)** Study of toxic mechanisms, pathology and disease development resulting from exposure to biological and chemical agents in the work environment.

**AHLT G465 Occupational Health Practicum I (3 cr.)** Supervised orientation and observation of health and safety hazards within the industrial setting; practical application of the OSHA and related laws and regulations emphasized.

**AHLT G466 Occupational Health Practicum II (3 cr.)** Prerequisites: G465—Supervised functional training in occupational health and safety emphasizing surveillance, monitoring and control procedures.

## 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 Seminar (2 cr.)** Methods of teaching including development of learning resources and evaluation.

**AHLT D405 Community Dental Hygiene (5 cr.)** Program planning for field experience including directed teaching experience in the area of public health.

**AHLT D465 Practicum I (4 cr.)** Application of public health principles and practices including the development, implementation and evaluation of a field experience in a health department, education system, hospital or community program.

**AHLT D466 Practicum II (4 cr.)** Application of public health principles including the development, implementation, and evaluation of field experiences.

## 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.

## Radiologic Sciences

**AHLT R100 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.

**AHLT R101 Radiographic Procedures I (4 cr.)** To obtain knowledge, skills, and application of alignment of body parts, cassette, and X-ray tube in each radiographic examination. Emphasis is on procedures used to demonstrate the skeletal system and on resulting radiographic anatomical demonstration. Laboratory included.

**AHLT 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.

**AHLT R103 Introduction to Clinical Radiography (2 cr.)** Introduction to the functions and basic procedures of a diagnostic radiography department. Emphasis is placed on radiographic equipment, radiation protection, positioning terminology and the procedures used on typical radiographic examinations.

**AHLT R185 Medical Terminology (1 cr.)** Introduction to origin and derivation of medical words as well as their meaning. Includes use of medical dictionary.

**AHLT R200 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.

**AHLT R201 Radiographic Procedures II (3 cr.)** Furthering knowledge, skills, and application of alignment of body parts, cassette, and X-ray tube in each radiographic examination. Emphasis is on contrast studies and resulting radiographic anatomical demonstration.

**AHLT 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.

- AHLT R205 Radiographic Procedures III (3 cr.)** Furthering knowledge, skills, and application of alignment of body parts, cassette, and accessory equipment in each radiographic examination. Emphasis is given to special radiographic procedures. Film critique.
- AHLT 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.
- AHLT R250 Physics Applied to Radiology (3 cr.)** Fundamentals of X-ray generation in radiant energy.
- AHLT R260 Radiation Biology and Protection in Diagnostic Radiology (1 cr.)** Study of the biological effect of ionizing radiation and the standards and methods of protection. Emphasis is placed on x-ray interactions. Also included are discussions on radiation exposure standards and radiation monitoring.
- AHLT R181 Clinical Experience I (cr. arr.)**
- AHLT R182 Clinical Experience II (cr. arr.)**
- AHLT R281 Clinical Experience III (cr. arr.)**
- AHLT R282 Clinical Experience IV (cr. arr.)**
- AHLT R283 Clinical Experience V (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, V and Comprehensive Experience, totaling a minimum of 2400 clock hours.
- AHLT R290 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, V and Comprehensive Experience, totaling a minimum of 2400 clock hours.
- AHLT R401 Advanced Clinical Practicum I (cr. arr.)** Lecture and clinical experience relative to advanced procedures in radiologic technology. Included are techniques of arteriography, arthrography, mammography, etc. Other areas may be included at the request of the student and depending upon the availability of instruction.
- AHLT R402 Advanced Clinical Practicum II (cr. arr.)** Continuation of AHLT R401.
- AHLT R403 Advanced Clinical Practicum III (cr. arr.)** Continuation of AHLT R402.
- 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 R407 Seminar in Radiologic Technology (3 cr.)** Individual and group study focusing upon film critique, selected readings, and procedures relevant to radiologic technology.
- AHLT R409 Research in Radiologic Technology (3 cr.)** Individual research in radiologic technology.
- AHLT R412 Physics and Instrumentation of Nuclear Medicine I (3 cr.)** An introduction to the physical disciplines of nuclear medicine. Lectures and laboratory exercises on radiation physics, computer programming and the statistics of radiation measurements.
- AHLT R417 Physics and Instrumentation of Nuclear Medicine II (3 cr.)** A continuation of AHLT R412. Lectures and exercises on electronic principles, the operational fundamentals of radiation counting devices and imaging systems, and quality assurance programs.
- AHLT R422 Radionuclide Measurements (2 cr.)** Lectures and laboratory sessions emphasizing the clinical utilization of nuclear counting and imaging systems, including counting and imaging systems and principles of quantitative measurements.
- AHLT R427 Radiopharmaceuticals (2 cr.)** Lectures and laboratories concerning properties and preparation of radiopharmaceuticals.
- AHLT R430 In Vivo and In Vitro Studies I (1 cr.)** This course will introduce the student to the principles of tracer methodology and apply that methodology to those aspects of Nuclear Medicine considered the preserve of the In Vitro laboratory. Special emphasis will be placed on competitive protein binding assays.
- AHLT R431 In Vivo and In Vitro Studies II (1 cr.)** A discussion of tracer technique from the point of view of following either a dynamic or steady state process in the measurement of certain body spaces and functions.

- AHLT R432 Clinical Application of Radionuclides (3 cr.)** Lectures covering the clinical aspects of nuclear medicine procedures, including the physiological and technical procedures for each type of study.
- AHLT R437 Radiation Protection in Nuclear Medicine (1 cr.)** Lectures on the principles of radiation protection in nuclear medicine.
- AHLT R440 Radiobiology in Nuclear Medicine (1 cr.)** Lectures on the biological effects of ionizing radiation.
- AHLT R445 Clinical Nuclear Medicine Practicum I (5 cr.)** Practical clinical application of nuclear medicine theory.
- AHLT R446 Clinical Nuclear Medicine Practicum II (5 cr.)** Continuation of AHLT R445.
- AHLT R447 Clinical Nuclear Medicine Practicum III (6 cr.)** Continuation of AHLT R446.

## Respiratory Therapy

- AHLT F205 Introduction to Respiratory Therapy (2 cr.)** An introduction to the Respiratory Therapy profession; a review of the history of respiratory care as well as the organizational history of Respiratory Therapy; governing agencies; also included are general patient care and the patient-therapist relationship; solutions and ions, gases, with emphasis on properties of gases and the gas laws.
- AHLT F211 Respiratory Therapy Clinical Experience I (1 cr.)** P: Concurrent Enrollment in Summer II Courses. Laboratory and clinical experience to support the content areas presented in Gas and Aerosol Therapy.
- AHLT F212 Respiratory Therapy Clinical Experience II (3 cr.)** P: F211. Clinical experience in the areas of gas and aerosol therapy, chest physiotherapy, intermittent positive pressure, breathing treatments, incentive spirometry, airway management and cardiopulmonary resuscitation.
- AHLT F213 Respiratory Therapy Clinical Experience III (4 cr.)** P: F212. Clinical experience in treatment modalities, CPR and introduction to ventilation therapy.
- AHLT F241 Cardiopulmonary Resuscitation and Airway Management (1 cr.)** P: Summer II Courses. Presentation of cardiopulmonary resuscitation and certification at the Basic Rescuer level; study of types of mechanical airways, complications, suctioning techniques and airway care; manual resuscitators and emergency boxes.
- AHLT F242 Cardiopulmonary Physiology (2 cr.)** A review of cardiopulmonary physiology with emphasis on the electro-physiology of the heart, pulmonary circulation, cardiovascular failures, cardiac arrhythmias, congenital diseases of the heart; ventilation and respiration; respiration and metabolism, CNS regulation, blood gases and acid base balance; oxygen and carbon dioxide transportation; renal system functions in acid base and clinical application.
- AHLT F243 Respiratory Therapy Treatment Modalities (2 cr.)** P: Summer II Courses. Discussion of the modalities utilized in chest physiotherapy, indications, counterindications, breath sounds and incentive spirometry; theory and rationale of IPPB therapy; IPPB equipment, IPPB techniques; spirometers.
- AHLT F244 Cardiopulmonary Pathophysiology (3 cr.)** P: Fall Courses. Study of the major diseases of the respiratory and circulatory systems with application of respiratory therapy rationale and techniques.
- AHLT F253 Diagnostic Testing and Monitoring (2 cr.)** P: Summer II courses. Comprehensive study of pulmonary functions; detailed blood gas analysis and related equipment; pulmonary rehabilitation.
- AHLT F258 Respiratory Therapy Clinical Experience IV (3 cr.)** P: F213. Comprehensive clinical experience in ventilation therapy, exposure to all aspects of intensive care therapy.
- AHLT F259 Respiratory Therapy Management (2 cr.)** P: Fall Courses. Lecture series in respiratory care theory and philosophy; includes administrative and management skills, personnel considerations and quality assurance mechanisms.
- AHLT F270 Gas Therapy (2 cr.)** Manufacture of gases; transportation and storage of oxygen; pressure and flow regulation; gas administration devices; delivery of gas therapy; properties of aerosols and humidity; principles of operation for nebulizers and humidifiers; indications for aerosol and humidity therapy; environmental therapy; an overview of cardiorespiratory pharmacology; sterilization and disinfection with emphasis on techniques and agents.

**AHLT F273 Principles of Ventilation (4 cr.)** P: Fall Courses. Theory and principles of mechanical ventilation; principles of operation and comprehensive study of positive and negative mechanical ventilators; lecture and lab.

## **Master's Program in Allied Health Sciences Education**

The courses and curriculum for the Master's Program in Allied Health Education are currently being revised. For detailed information contact Professor Walter Foegelle, Division of Allied Health Sciences, or Professor Robert Harris, School of Education.

## **School Of Medicine Courses**

Courses in the basic science 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.

# Faculty and Staff, 1980-81

## Credential Abbreviations

C.O.T.A.—Certified Occupational Therapy Assistant  
C.T. (ASCP)—Cytotechnologist  
H.T.(ASCP)—Histological Technician  
M.T.(ASCP)—Medical Technologist  
M.T.(ASCP) BB—Blood Banking Technologist  
N.M.T.(ASCP)—Nuclear Medical Technologist  
R.T.N.(ARRT)—Nuclear Medicine Technologist  
SC(ASCP)—Specialist in Chemistry  
SM(ASCP)—Specialist in Microbiology  
O.T.R.—Registered Occupational Therapist  
R.D.H.—Registered Dental Hygienist  
R.P.S.—Registered Professional Sanitarian  
R.P.T.—Registered Physical Therapist  
R.R.A.—Registered Record Administrator  
R.R.T.—Registered Respiratory Therapist  
R.T.R.(ARRT)—Registered Radiologic Technologist

## Division of Allied Health Sciences

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BURR, JUDITH E., M.S. (*Indiana University, 1978*), NMT (ARRT, 1973), Instructor of Radiologic Sciences

CARL, T. KAY, B.S. (*Indiana University, 1967*), O.T.R., 1967, Content Coordinator, Basic Professional Curriculum, and Assistant Professor of Occupational Therapy

DIPERT, DENNIS L., M.S. (*Indiana University, 1974*), R.P.T. (1970), Assistant Professor of Allied Health and Director, Physical Therapy Program

DOTY, JOHN M., Ph.D. (*University of Michigan, 1972*), Director for Public Health Academic Programs, and Assistant Professor of Preventive Medicine

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GARTNER, DONALD J., M.S. (*Indiana University, 1972*), M.T. (ASCP) 1967, Assistant Professor of Medical Technology

HAMANT, CELESTINE, M.S. (*Butler University, 1971*), O.T.R. (1963) Director of Occupational Therapy Hospital Services, and Associate Professor of Occupational Therapy, Fellow (AOTA) 1977

HARSHMAN, HARDWICK W., Ph.D. (*University of Michigan, 1962*), Professor of Allied Health Sciences and Education

HOCKER, NARCISSA, M.S. (*Indiana University*, 1964), M.T. (ASCP) 1945, M.T. (ASCP), B.B. 1955, Associate Professor of Medical Technology

HOSTETLER, MERLE D., B.A. (*Goshen College*, 1962), Professional Certificate in Occupational Therapy (*Columbia University*, 1966), O.T.R. (1966), Instructor in Occupational Therapy

HOWELL, DAMIEN W., M.S. (*Medical College of Virginia*, 1977), R.P.T. (1972), Assistant Professor, Physical Therapy Program

KASPER, LINDA M., M.S. (*Indiana University*, 1977), M.T. (ASCP) 1963, S.C. (ASCP) 1975, Assistant Director and Assistant Professor of Medical Technology

KEHREIN, SUETTA, M.S. (*Indiana University*, 1975), A.R.R.T. (1964), Coordinator of Baccalaureate Programs in Radiologic Sciences, Assistant Professor of Radiologic Sciences

KERSTETTER, WILLIAM E., M.A. (*Central Michigan University*, 1978), C.T. (ASCP, 1970), Lecturer in Cytotechnology

KIEL, JUDITH, M.S., O.T.R. (*Indiana University*, 1979), Instructor in Occupational Therapy

KILLIAN, CLYDE B., M.S. (*Indiana University*, 1977), R.P.T. (1973), Assistant Professor, Physical Therapy Program

KLATTE, EUGENE C., M.D. (*Indiana University*, 1952), Chairman, and Professor of Radiology, Director of Radiologic Sciences

KOSS, JOSEPH A., M.S. (*Indiana University*, 1977), Director, and Associate Professor of Respiratory Therapy

LADUE, RUTH, A.M. (*Stanford University*, 1966), R.P.T. (1945), Assistant Professor of Physical Therapy.

LAMPORT, NANCY, B.S., O.T.R. (*Ohio State University*, 1973), Instructor in Occupational Therapy

LEHMAN, RACHEL M., B.S. (*Indiana State University*, 1929), M.T. (ASCP) 1936, Assistant Professor Emeritus of Medical Technology

LoSASSO, ALVIN M., M.D. (*The Ohio State University*, 1963), Medical Director of the Respiratory Therapy Program and Associate Professor of Anesthesiology

McKENNA, ARLENE M., B.S. (*University of Health Sciences/Chicago Medical School of Related Health Sciences*, 1977), A.R.R.T., (1973), Acting Coordinator of Allied Health Programs, Assistant Professor of Allied Health

McKENZIE, MARY L., M.S. (*Indiana University*, 1973), R.R.A. (1954), Director, and Associate Professor in the Medical Record Administration Program

McNULTY, TERRI, A.S. (*Indiana University*, 1972), C.O.T.A. (1972), Part Time Lecturer in Occupational Therapy Education

McSWANE, DAVID Z., M.P.H. (*Indiana University*, 1972), R.P.S. (1972), Coordinator for Public Health Education, and Assistant Professor of Environmental Health Sciences

MAGEE, MARION R., A.M. (*Smith College*, 1961), R.P.T. (1956), Associate Professor of Physical Therapy

MARLER, LINDA M., M.S. (*Indiana University*, 1978), M.T. (ASCP) 1973, Assistant Professor of Medical Technology

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NATHAN, CAROL, A.M. (*University of Southern California*, 1968), O.T.R. (1958), Director, and Associate Professor of Occupational Therapy, Fellow (AOTA) 1979

NEFF, PAULA E., M.S. (*Indiana University*, 1978), R.R.T., Assistant Professor of Allied Health and Program Director of Respiratory Therapy

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OLECKNO, WILLIAM A., M.P.H. (*University of Pittsburgh*, 1973), R.P.S. (1974), Coordinator and Assistant Professor of Environmental Health Sciences

PIERCE, EDWARD R., Ph.D. (*University of Louisville*, 1968), M.P.H. (*Johns Hopkins*, 1970), Associate Dean of Medicine; Director, Division of Allied Health Sciences; and Professor of Allied Health

PORTER, REBECCA E., M.S. (*Indiana University*, 1977), R.P.T. (1972), Assistant Professor of Physical Therapy

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ROTH, LAWRENCE, M.D., (*Harvard University*, 1960), Professor of Pathology, Acting Medical Director of Cytotechnology Program

SCHAAF, EMILY, M.S. (Indiana University, 1978), A.R.R.T. (1970), Educational Coordinator, and Assistant Professor of Radiologic Sciences

SCHOLL, JULIE A., B.S. (Clarke College, 1977), M.T. (ASCP), 1978, Lecturer, Interim Director for Medical Laboratory Sciences

SIMEK, ERNA, M.H.A. (Washington University, 1954), O.T.R. (1944), Associate Director for Occupational Therapy Technology Curriculum, and Associate Professor of Occupational Therapy, Fellow (AOTA) 1978

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- FISK, A. REBEKAH, M.S. (*Butler University, 1958*), R.D.H. (*University of Pennsylvania, 1923*), Assistant Professor Emeritus (School of Dentistry)
- FREEMAN, ELLEN, R.N., (*St. Vincent Hospital, 1960*), R.R.T. (1964), Chief Therapist, Department of Respiratory Therapy, University Hospital, Indianapolis
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- GLANT, MICHAEL, M.D. (*Indiana University, 1976*), Assistant Professor of Pathology.
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- LANE, DEBORAH, M.S. (*Indiana University, 1976*), M.T. (ASCP) 1970, Assistant Supervisor, Chemistry, Wishard Memorial Hospital, Indianapolis
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- MILLER, JERRY, M.D. (*Temple University, 1947*), Professor of Anesthesiology
- MILLER, MAURICE, R.R.T. (1968), Technical Director, Department of Respiratory Therapy, Indianapolis, Indiana
- MINTON, SHERMAN A., JR., M.D. (*Indiana University, 1942*), Professor of Microbiology
- MOOREHEAD, WELLS R., Ph.D. (*University of Tennessee, 1965*), Associate Professor of Pathology
- OEI, TIJEN O., M.D. (*University of Indonesia, 1958*), Professor of Pathology
- OLDSEN, EVELYN R., M.S. (*University of Iowa, 1969*), Associate Professor and Director of Dental Hygiene Programs
- PLUMMER, ANNE, B.S. (*Indiana University, 1969*), R.P.T. (1969), Supervisor, Physical Therapy, Riley Hospital, Indianapolis
- PRINCE, HARWOOD, R.R.A. Director Medical Record Services, Indiana University Hospitals, Indianapolis
- PROKSCH, GARY J., Ph.D. (*University of Iowa, 1970*), Assistant Professor of Pathology

RAIDT, HAROLD, M.S. (*University of Kentucky, 1934*), Professor of Microbiology (School of Medicine, School of Dentistry, Graduate School)

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SHANKS, JAMES C., JR., Ph.D. (*Northwestern University, 1957*), Clinical Director of Speech Pathology Services, and Professor of Speech Pathology (Otorhinolaryngology and Bronchoesophagology)

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SLOMINSKI, ANITA, B.S. (*Indiana University, 1944*), O.T.R. (1946), Coordinator, Cerebral Palsy Clinic, Medical Center, Indianapolis. FELLOW, AOTA (1974)

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SMITH, JAMES W., M.D. (*University of Iowa, 1959*), Professor of Pathology

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## ADJUNCT

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SOLOW, ELIZABETH, B., M.S. (*Indiana University, 1962*), Associate Professor of Neurological Surgery Research (Surgery)

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RUSKOWSKI, DAVID, B.S. (*Indiana University, 1977*), R.R.T. 1975, *Director of Respiratory Therapy, St. Francis Hospital, Indianapolis*

SCHMELTER, DANA J., B.S. (*College of Pennsylvania, 1974*), R.R.A., *Director, Medical Information Services, Methodist Hospital, Gary*

SHIMER, THOMAS S., JR., B.S. (*University of Cincinnati, 1951*), *Guest Lecturer in Medical Record Administration Program*

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## Indiana University

When you become a student at Indiana University you join an academic community internationally known for the excellence and diversity of its programs. The University attracts students from all fifty states and around the world. The full-time faculty numbers over 3,000 and includes members of many academic societies such as the American Academy of Arts and Sciences, the American Philosophical Society, and the National Academy of Sciences.

Indiana University was founded at Bloomington in 1820 and is one of the oldest and largest of the state-supported universities. It serves over 70,000 students on eight campuses. The residential campus at Bloomington and the urban center at Indianapolis form the core of the University system. Regional campuses in Gary, Fort Wayne, Kokomo, New Albany, Richmond, and South Bend join Bloomington and Indianapolis in bringing an education of high quality within reach of all of Indiana's citizens.

### THE BLOOMINGTON CAMPUS

The environment and facilities of the Bloomington campus make it a dynamic place to live and study. Over 30,000 students pursue undergraduate and graduate degrees at Bloomington.

The academic resources of the campus provide both opportunity and challenge. The University Library ranks in the top ten academic libraries in the United States and the Lilly Library is internationally known for its collection of rare books and manuscripts. The libraries support the work of faculties in areas such as the Humanities, Foreign Languages, and the Social Sciences who are renowned for their scholarship and research. Laboratories in departments such as Biology, Chemistry, and Physics are engaged in work at the frontiers of knowledge. Particularly notable is the 200 million volt variable particle cyclotron, which attracts scientists from around the world. The Schools of Business and Public and Environmental Affairs enjoy high prestige with business and government leaders. Programs of distinction are offered in the Schools of Law and Optometry, the Graduate Library School, and the School of Health, Physical Education, and Recreation. The School of Music is ranked first among all such schools in the nation and the School of Education ranks third. An extraordinary variety of lectures and seminars complement classroom and laboratory inquiry. The University Theatre, the Art Museum, and the large Musical Arts Center serve as major resources for the University's programs in the performing and fine arts.

Housing is provided on the Bloomington campus in residence halls, sororities, and fraternities. For married students and their families the University offers apartments and trailers. Students also rent off-campus housing in Bloomington.

The Bloomington campus provides many services for its students. The University Division gives special support and counseling to incoming freshmen, helping them to plan and carry through a sound academic program. The Student Health Center, the Career Counseling Center, job placement services, Student Legal Services, the Psychological Clinic, the Optometry Clinic, and services for the handicapped, minority students, women, and veterans are described in the student handbook, which is available from the Dean for Student Services.

Indiana University-Bloomington is a member of the Big Ten Conference. Men's and women's varsity teams participate in 13 sports. A large intramural sports program provides recreation for all students. Tennis and squash courts, swimming pools, sports fields, running tracks, basketball courts, and an 18-hole golf course are available for individual use. Within a few miles of Bloomington are several thousand acres of state forest, wilderness trails, and lakes for swimming, boating, and fishing.

THE INDIANAPOLIS CAMPUS

Indiana University-Purdue University at Indianapolis is an innovative urban campus. I.U. and Purdue programs and facilities merged at Indianapolis in 1969, and the campus continues to grow in both the range of academic offerings and the physical facilities. IUPUI also operates a branch campus at Columbus, Indiana.

The IUPUI library system consists of seven libraries serving the special interests of individual schools. In addition, the entire Indiana University system library is readily available through the interlibrary loan system.

Significant research in the medical sciences is carried out in ten specialized centers within the medical school. Research projects are conducted in numerous other fields, some in cooperation with city and state government and private industry.

Schools at IUPUI are deeply involved in service to citizens, working closely with public and private agencies, government, business, and industry in providing expertise to solve problems. Such service projects enable students to enrich their education with practical experience.

Lectures, theatre presentations, and other special events are available on campus, and the city provides many facilities for the arts, sports, and entertainment. IUPUI is a member of the National Association of Intercollegiate Athletics and the National Collegiate Athletics Association. Men's and women's varsity teams participate in six sports, and an intramural sports program offers recreation for all students.

IUPUI provides on-campus housing for a limited number of students. The Housing Office maintains a list of apartments available off campus in the Indianapolis area.

Services for students are described in the student handbook, available from the Dean for Student Services. They include special services for the handicapped, veterans, women, and foreign students; a day care center; personal counseling; career counseling and job placement; financial aid; and the Student/Employee Health Center.

POLICIES OF THE UNIVERSITY

**Nondiscrimination policy.** Indiana University provides its services without regard to sex, age, race, religion, ethnic origin, veteran status, or handicap. An Affirmative Action Office on each campus monitors the University's policies and assists individuals who have questions or problems related to discrimination.

**Confidentiality of Student Records.** In accordance with federal statutes and regulations, student records are confidential and available for disclosure to persons other than the student only under stated conditions.

**Student Rights and Responsibilities.** Rights and responsibilities of students are included in the Student Handbook and provide for due process hearings in the event of disciplinary action.

**Degree Requirements.** Students are responsible for understanding all requirements for graduation and for completing them by the time they expect to graduate. Information about a specific school or division can be found in the front section of the bulletin for that school.

FEES

Fees are subject to change by action of the Trustees of Indiana University.

<b>BLOOMINGTON CAMPUS</b>	<b>Indiana resident</b>	<b>Nonresident</b>
Undergraduate	\$ 31/credit hour	\$ 76/credit hour
Graduate and professional	40/credit hour	96/credit hour
Medical (flat fee)	660/semester	1600/semester

**INDIANAPOLIS CAMPUS**

Undergraduate	\$ 26/credit hour	\$ 59/credit hour
Graduate and professional	40/credit hour	96/credit hour
Medical (flat fee)	660/semester	1600/semester
Dentistry (flat fee)	580/semester	1450/semester

**Special Fees: both campuses**

Auditing (no credit)	\$ 5/credit hour
G900 or R900 (thesis in absentia)	40
Late enrollment	25
Late program change	10
Independent study (correspondence)	26/credit hour
Adult education (noncredit)	
School of Nursing	100/week
Student Health Service	20-30/semester

**FEE REFUND**

**SCHEDULE**

<b>First and Second Semesters</b>	<b>Refund for Withdrawal</b>
First week or through Class Change Day	100%
Second and third weeks	50% or all except \$50, whichever is larger
Thereafter	None
<b>Summer Sessions</b>	
First week or through Class Change Day	100%
Second week	50% or all except \$50, whichever is larger
Thereafter	None
<b>Intensive Sessions</b>	
Before second class meeting	100%
Before third class meeting	50%
Thereafter	None

**PROCEDURE**

Students must apply to the Office of Records and Admissions for fee refunds when they withdraw from classes.

**RESIDENCY STATUS**

Prospective students from out of state should be aware that the criteria for establishing in-state residency and thus qualifying for in-state fee rates are very strict. Except under specific circumstances, persons who have moved to Indiana for the primary purpose of attending a college, university, or other institution of higher education will not be able to qualify for in-state fees during their academic career. Rules for determining residency are listed at the end of this section.

**FEE REDUCTIONS AND FINANCIAL AID**

**Scholarships and Financial Aid.** Students can find information about loans and part-time employment through the Office of Scholarships and Financial Aids and through their school or department.

**Employment.** The Office of Financial Aids on each campus lists openings for part-time jobs in various offices and organizations of the University.

**Fee Courtesy.** Fees for a full-time (100% F.T.E.) appointed employee of Indiana University enrolled in 1 to 6 credit hours per semester or summer session are assessed at one half the resident credit hour rate at the campus where the employee enrolls. Fees for credit hours beyond 6 in a semester or summer session are at the full resident rate.

The spouse of a full-time (100% F.T.E.) appointed employee of Indiana University is entitled to a fee credit of one half the resident undergraduate fee rate for each credit hour up to a maximum of 3 credit hours per semester or summer session. This fee credit will be deducted from the full fees of the student assessed at the appropriate resident or non-resident rate.

**Veteran benefits.** Students who are eligible for veteran benefits may enroll according to the following scales:

<b>Benefits</b>	<b>Fall &amp; Spring</b>		<b>IUPUI</b>	<b>Bloomington</b>
<b>Undergraduate</b>	<b>Semesters</b>	<b>Summer I</b>	<b>Summer II</b>	<b>Summer II</b>
full	12 or more	4	4	6
$\frac{3}{4}$	9-11	3	3	4-5
$\frac{1}{2}$	6-8	2	2	3
tuition only	fewer than 6	1	1	1-2
<b>Graduate</b>				
<b>Benefits</b>				
full	9 or more	4	4	5
$\frac{3}{4}$	7-8	3	3	4
$\frac{1}{2}$	5-6	2	3	3
tuition only	fewer than 5	1	1	1-2

It is the responsibility of the veteran or veteran dependent to sign up for benefits each semester or summer session of enrollment. It is also the responsibility of the veteran or veteran dependent to notify the Veterans Affairs Office of any schedule change which may increase or decrease the number of benefits allowed.

Veterans with service connected disabilities may qualify for the V.A. Vocational Rehabilitation Program. They should contact their regional V.A. office for eligibility information.

## TRANSFER TO OTHER INDIANA UNIVERSITY CAMPUSES.

Each year many Indiana University students transfer from one campus of the university to another to continue their studies toward a degree. These transfers are often necessitated by financial difficulties, illness, or other personal problems, but just as often they are a matter of personal preference. Few of the other multi-campus universities are organized to facilitate this volume of student migration. Indiana University credits transferred from one campus of Indiana University to another will be evaluated and accepted in terms at least as favorable as credits transferred from other accredited institutions in the United States. No review of the credits will be undertaken except in good faith terms of the same criteria used in evaluating external credits. In fact, students transferring within the Indiana University system are treated much more favorably because of the similarity of course work on the eight campuses.

Students who wish to transfer to another campus should follow these procedures:

1. Inform your academic adviser of your decision as soon as possible. Degree requirements may vary from one campus to another but if your adviser knows of your plan, your academic program can be designed to meet the requirements of the campus you will eventually attend.
2. Contact the department chairperson (or the designated adviser) at the campus you plan to attend. Discuss your plan and ask about any special procedures. For example, transfers in fine arts must submit portfolios of their work. Music transfer students must be auditioned.
3. As the date of transfer approaches, check with your campus Registrar to get information on Registration dates and procedures on the other campus. If there is a pre-registration or

pre-enrollment procedure at the other campus, you should plan to take advantage of it. Contact the Registrar of the other campus to determine whether you can fulfill any of these responsibilities by phone. Your Registrar has a direct telephone line to all other Registrars.

4. When you arrive on the new campus, contact your assigned academic adviser or department chairperson as soon as possible. Discuss your academic progress to date and the additional course work required for your program.

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

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

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

1. "Residence" as the term, or any of its variations (e.g., "resided"), as used in the context of these Rules, means the place where an individual has his or her permanent home, at which he or she remains when not called elsewhere for labor, studies, or other special or temporary purposes, and to which he or she returns in seasons of repose. It is the place a person has voluntarily fixed as a permanent habitation for himself or herself with an intent to remain in such place for an indefinite period. A person at any one time has but one residence, and a residence cannot be lost until another is gained.
  - (a) A person entering the state from another state or country does not at that time acquire residence for the purpose of these Rules, but except as provided in Rule 2(c), such person must be a resident for 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's parents or guardians.
  - (b) The situs of the source of the student's income.
  - (c) To whom a student pays his or her taxes, including property taxes.
  - (d) The state in which a student's automobile is registered.
  - (e) The state issuing the student's driver's license.
  - (f) Where the student is registered to vote.
  - (g) The marriage of the student to a resident of Indiana.
  - (h) Ownership of property in Indiana and outside of Indiana.
  - (i) The residence claimed by the student on loan applications, federal income tax returns, and other documents.
  - (j) The place of the student's summer employment, attendance at summer school, or vacation.
  - (k) The student's future plans including committed place of future employment or future studies.
  - (l) Admission to a licensed profession in Indiana.
  - (m) Membership in civic, community, and other organizations in Indiana or elsewhere.
  - (n) All present and intended future connections or contacts outside of Indiana.
  - (o) The facts and documents pertaining to the person's past and existing status as a student.
  - (p) Parents' tax returns and other information, particularly when emancipation is claimed.
5. The fact that a person pays taxes and votes in the state does not in itself establish residence, but will be considered as hereinbefore set forth.
6. The Registrar or the person fulfilling those duties on each campus shall classify each student as resident or nonresident and may require proof of all relevant facts. The burden of proof is upon the student making a claim to a resident student status.
7. A Standing Committee on Residence shall be appointed by the President of the University and shall include two (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 affect other provisions or applications of these Rules which can be given effect without the invalid provision or application, and to this end the provisions of these Rules are severable.



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