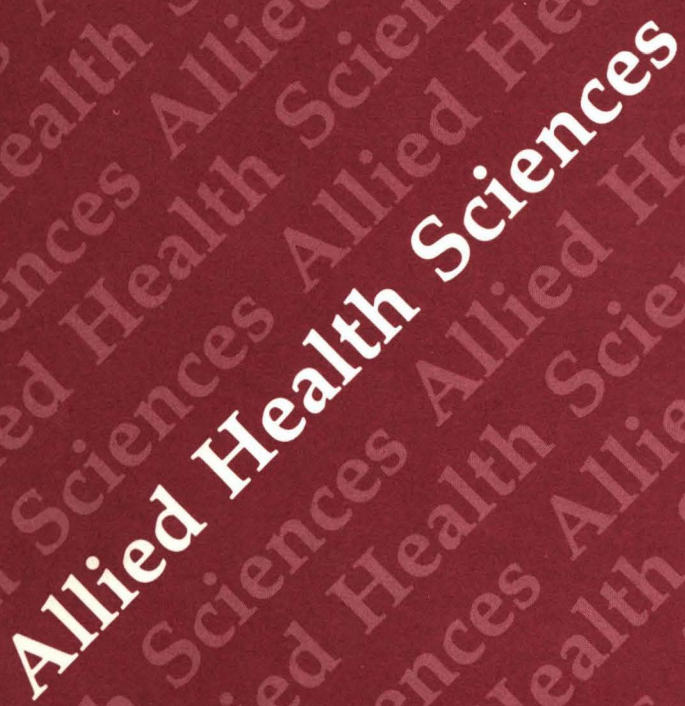


# Indiana University Bulletin 1983-85

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## Division of Allied Health Sciences

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**Allied Health Sciences**

## **Indiana University 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>
- \*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
- \*School of Library and Information Science
- 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 Journalism
- \*School of Law-Indianapolis
- \*School of Liberal Arts
- \*School of Medicine
- \*Division of Allied Health Sciences
- \*Division of Continuing Medical Education
- \*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
- IUPUI Columbus (Indiana)

## **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 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.

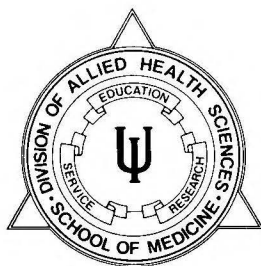
<sup>2</sup> Brochures on the Independent Study Division, Labor Studies, External Degrees, and Real Estate Certification Program are available from this School (Owen Hall).

# Indiana University Bulletin 1983-85

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## Division of Allied Health Sciences

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While every effort is made to provide accurate and current information, Indiana University reserves the right to change without notice statements in the Bulletin series concerning rules, policies, fees, curricula, courses, or other matters.

**INDIANA UNIVERSITY BULLETIN**  
OFFICIAL SERIES (USPS 262440)

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Second-class postage paid at Bloomington, Indiana. Published nineteen times a year (three times in October; twice in March, April, May, June, and December; monthly in January, February, July, August, September, and November) by Indiana University from the Office of University Publications, Bloomington, Indiana 47405. Postmaster: Send address changes to Indiana University Bulletin Mail Room, 708 N. Indiana, Bloomington 47405.

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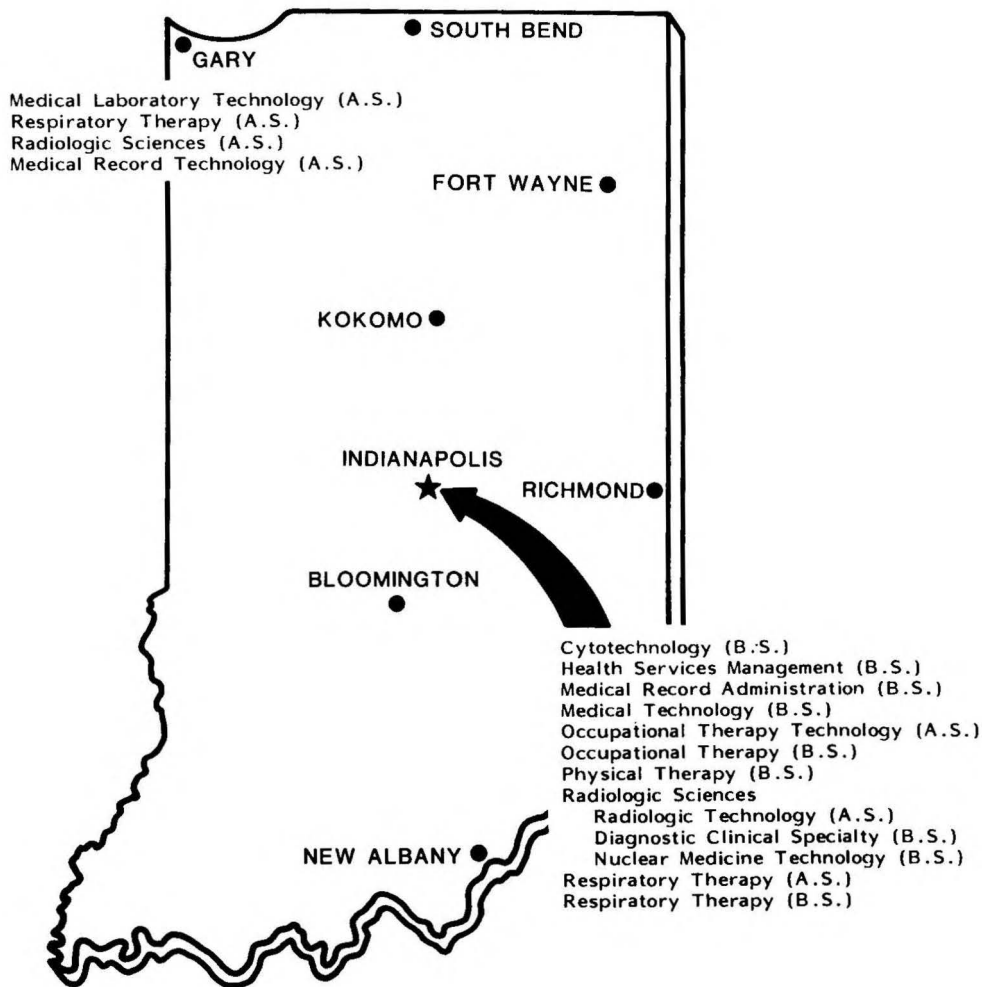
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**INDIANA UNIVERSITY SCHOOL OF MEDICINE  
DIVISION OF ALLIED HEALTH SCIENCES  
Academic Degree Programs**





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# Division of Allied Health Sciences

## Purpose

The Indiana University School of Medicine, Division of Allied Health Sciences, is concerned with providing allied health education within the Indiana University system. The Division prepares allied health professionals to provide diagnostic, therapeutic, and rehabilitative patient care or management skills for health services. As part of a major university, the Division accepts and fulfills four major responsibilities by providing: (1) opportunities to acquire a sound basic education in Allied Health Sciences and to foster the development of life-long habits of scholarship and service; (2) advancement of knowledge through research; (3) continuing education programs which are aimed at maintaining and improving the competence of those allied health professionals engaged in patient care or supportive health services; and (4) multiple services to the people of the State of Indiana in all areas of Allied Health Sciences, patient care, and administrative supportive health services.

## History

The Division of Allied Health Sciences was established in 1959 by action of the Board of Trustees of Indiana University. In 1960, the Board of Trustees conferred upon the faculty of the School of Medicine the responsibility and the authority to qualify for the Bachelor of Science degree those students successfully completing the prescribed curriculum in Medical Record Administration, Medical Technology, Occupational Therapy, and Physical Therapy—academic programs which had been offered long before the establishment of the Division. In 1965 the Cytotechnology program was approved, and baccalaureate programs in Radiologic Technology were initiated in 1969. The Allied Health Occupations program (currently titled Health Services Management program) was established in 1977. In addition to the baccalaureate degree programs, the Division offers associate degree programs in Respiratory Therapy (1965), Radiologic Technology (1966), Occupational Therapy (1970), Medical Laboratory Technology (1976), and Medical Record Technology (1973). The latter two degree programs are currently offered by the Division at Indiana University Northwest campus only. The associate degree in Respiratory Therapy and Radiologic Technology are also offered by the Division at the Northwest campus.

The Division of Allied Health Sciences is the undergraduate pre-baccalaureate, academic, administrative, and fiscal unit of the School of Medicine and comprises 12 distinct Allied Health academic degree programs. The Division is one of the oldest Allied Health academic units in the country and has provided leadership in allied health services, research and education to the citizens of Indiana, the region, and the nation for more than 20 years. About 15 years ago, the Division was one of 13 Allied Health units from across the country to participate in the planning and formation of the National Professional Society—the American Society of Allied Health Professions, the spokesman and organization for individual Allied Health practitioners, Allied Health educational institutions, and Allied Health professional societies.

## 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 Laboratory Technology, Medical Record Administration, Medical Record Technology, Medical Technology, Occupational Therapy, Physical Therapy, Radiologic Technology, and Respiratory Therapy are, in addition, fully accredited by the Committee on Allied Health Education and Accreditation in collaboration with the appropriate professional organizations.

## Mission of the Division of Allied Health Sciences

The Division of Allied Health Sciences, an integral part of the Indiana University School of Medicine, has a long tradition of academic excellence. The Division's major purpose is to provide degree programs of quality in the Allied Health Sciences to meet the needs of the people of the state of Indiana. In fulfilling its fundamental purpose, the Division seeks to develop and maintain a scholarly and competent faculty capable of achieving the following objectives:

- To provide undergraduate and graduate degree programs which offer education related to the provision of and the management of health services by the various allied health profession.
- To contribute to the advancement of knowledge through research.
- To provide continuing education for allied health practitioners wishing to further their career development.
- To foster the development of life-long habits of scholarship and service among faculty and students.

## 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 and health research 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 the student 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 allied health personnel should follow a coordinated and logical interdisciplinary process based on a core body of knowledge which exists and is germane in allied health practice. 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.

Education is perceived by the faculty as an evolving and continuing process which should result in an increased ability to think, reason, and judge and leads 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.

Faculty of the Division 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 discipline.

## Preadmission Status

### Matriculation

Enrollment at Indiana University *does not guarantee admission to the Division of Allied Health Sciences*. To be eligible for admission to the programs offered by the Division, students must adhere to the academic regulations of the School or Division in which they are enrolled and

meet Division and program preadmission requirements as stipulated in the general education and program sections of this *Bulletin*.

Except for those persons applying to the associate degree programs in occupational therapy technology, medical laboratory technology, medical record technology and radiologic technology, all students remain in University Division or other academic units until such time as they are accepted into the Division of Allied Health Sciences.

## **Change of Educational Objective for Preprofessional Students**

Changing one's educational objective to an Allied Health program does not guarantee admission to the Division or the program. Students thinking of changing their educational objective should consult with the Allied Health counselor on their respective campuses prior to initiating the change. Preallied health students in University Division or other Indiana University schools must follow that academic unit's change of educational objective procedures. All students must meet Division and program admission requirements in order to be admitted to the Division of Allied Health Sciences.

## **Admissions**

### **Policies**

The admissions policies are consistent with the philosophy of the Division of Allied Health Sciences. The admissions policies of individual programs within the Division comply with these standards. All admissions policies are applied uniformly to applicants seeking admission to the Division of Allied Health Sciences.

**Standard 1.** Applicants must complete entry level requirements at an accredited high school, college, university or General Education Degree, and comply with the following regulations:

- A. Applicants should complete prerequisite courses identified by the specific programs to which they apply. Prerequisite courses may be completed at any accredited educational institution.
- B. Individual programs may establish a minimum grade which must be achieved in any course (see program-specific prerequisite course areas).
- C. The pass/fail option cannot be applied in required courses.

**Standard 2.** Applicants must have a minimum grade-point average of 2.0 on a 4.0 scale for all completed course work (see program-specific admission requirements for implementation) to be eligible for admission to a Division of Allied Health Sciences program and comply with the following regulations:

- A. Individual programs may establish a minimum grade-point average which is higher than a 2.0 on a 4.0 scale (see program-specific prerequisite course areas).
- B. Individual programs may use a component of the overall grade-point average (i.e., math/science grade-point average) in the admission process.
- C. With the exception of students who have exercised the University FX policy, or in the case of unusual circumstances which are 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 have been retaken.
- D. Students with a grade-point average of 2.0 or above on a 4.0 scale may petition the program to which they are applying for consideration of one semester of academic bankruptcy based on compelling nonacademic reasons.
- E. For purposes of determining admission into the Division, only completed course work and resultant grade-point average are evaluated. For course work in progress when an offer of admissions is made and for all course work taken following the offer and prior to officially beginning the program, the student must obtain a grade-point average of at least 2.0 on a 4.0 scale each academic period (regular semester or single summer session). Unusual circumstances may be subject to review by the program and the Division of Allied Health Sciences admission committees.
- F. The grade-point average of the student will be the major (51% or greater) consideration in admitting the student.

**Standard 3.** Applicants may be required to complete any appropriate testing designated by the programs to which they apply.

**Standard 4.** Applicants may be required to submit the names of individuals who might be contacted as references.

**Standard 5.** Application to Indiana University must be prior to or concurrent with application to a Division of Allied Health Sciences program.

**Standard 6.** Applicants may be required by the programs to complete a personal interview.

**Standard 7.** For admission to and participation in an allied health program, students must meet technical standards consisting of nonacademic requirements that will enable students to engage in educational and training activities in such a way that they will not endanger other students or the public, including patients. Division technical standards will be mailed to applicants along with the acknowledgement of the receipt of the application. Specific program technical standards if applicable will be distributed prior to selection of students.

**Standard 8.** Applicants will not be discriminated against based on race, religion, national origin, sex, age or disability.

### **Procedures**

Students seeking admission to the associate or baccalaureate degree programs must file an application for admission with the Division. Students must complete the application as specified by the instructions printed on the application. Applications must be received prior to the deadline specified on the form for each program.

Students are eligible to be considered for admission to the associate or baccalaureate program when their academic progress shows reasonable probability that entry level requirements can be completed prior to the date of the opening of classes of the year for which application is made. Students should read the Admission Policies and Program Description sections of this *Bulletin* for specific entry level requirements.

For purposes of admission to the professional programs of the Division of Allied Health Sciences, Indiana University School of Medicine, preference will be given to Indiana residents and all students attending Indiana University campuses. Application for admission to the Division of Allied Health Sciences, regardless of program of choice, does not constitute automatic admission to the Division. All applications are reviewed, and selection of a class will be based on Division and program admission criteria. All applicants will receive formal notification of their admission status.

**In addition to these general requirements, applicants must refer to the “Academic Programs in Division of Allied Health Sciences, Medical Center, Indianapolis” and “Division of Allied Health Sciences Programs at Indiana University Northwest” sections of this *Bulletin* for campus-specific admission procedures.**

### **Waiver of Division Admission Requirement**

Applicants may petition the Division for consideration of waiver of a Division admission requirement based on a compelling nonacademic reason.

### **Transfer Credit**

Acceptance of credit from a regionally accredited college or university for transfer to Indiana University will be determined by the Office of Records and Admissions.

All credit must carry a grade of C as a minimum to be considered for acceptable transfer credit. The University does not accept for transfer credit, special credit by examination awarded by another college or university. Credit earned through a regionally accredited junior college or a community college is normally limited to the equivalent of two years of academic work toward a baccalaureate degree and one year of academic work toward an associate degree.

All credit to be applied to an allied health degree earned through the Division of Independent Study of Indiana University, correspondence study, or other nontraditional methods must be validated and approved by the Division of Allied Health Sciences program faculty to which the student is applying. The Division of Allied Health Sciences retains the right to determine the acceptability of transfer credit to meet degree requirements.

### **General Requirements for Degrees**

The faculty of the Division of Allied Health Sciences, Indiana University School of Medicine, will recommend for degrees only those students who have been admitted to Indiana Univer-

sity and to the Division of Allied Health Sciences. Candidates for degrees are eligible for graduation upon completion of all program requirements in effect at the time of first registration, provided requirements are met within five years.

The Division program faculty reserve the right, however, to require students whose program course of study is interrupted for any reason to meet requirements as specified by the director of the program and the dean for Allied Health. Changes in the student's original program may be necessary when, for example, a curriculum has been revised, offerings are no longer available, significant changes in curriculum content have occurred, or repetition of material is deemed essential to assure continuity of clinical competency.

Academic counseling and guidance are available for students. Students are responsible for seeking such counseling and guidance, and for planning courses of study to meet degree requirements as follows:

- Based upon earned Indiana University credits, a minimum cumulative grade-point average of 2.0 must be maintained.
- A minimum of 30 semester hours of program or program-related course work must be completed in residence on the Indiana University campus at which the degree is awarded.
- Additional general requirements for the bachelor's degree or associate degree as listed below.

#### **Bachelor's Degree**

1. Minimum of 122 semester hours.
2. Division baccalaureate degree general education requirements.
3. Minimum of 30 semester hours in courses at the 300-400 (junior-senior) level.

#### **Associate Degree**

1. Minimum of 60 semester hours.
  2. Division associate degree general education requirements.
- **Students must complete the prescribed course of study, meeting program academic, professional, and technical standards requirements which may exceed the requirements stated above.** Program professional standards consist of ethics and proper health care practices to which students must adhere. Program faculty will distribute these standards when appropriate.
  - During the semester prior to graduation, the student is responsible for submitting an "Intent to Graduate" form, which indicates that the student plans to complete all requirements for the appropriate degree.
  - Work for a degree must be completed within five years from the time the student first enrolls in the professional program. Under unusual circumstances, the program director may recommend granting a waiver of this requirement.

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

### **General Education Requirements**

Each candidate for an Allied Health degree must complete course work in the following categories:

#### **Basic General Education**

##### *Courses*

Written Communication

Verbal Communication

Humanities

(Literature, Philosophy, Fine Arts)

Mathematics

Social-Behavioral Sciences

Basic Life-Physical Sciences

*B.S. Degree*

one course

one course

one course

one course

two courses

two courses

*A.S. Degree*

one course

one course

At least two courses:  
each one from the different categories of Humanities, Mathematics, Social-Behavioral Sciences, or Basic Life-Physical Sciences.

### Programmatic General Education

Each program has additional general education requirements and/or specific course recommendations. Refer to the program of interest in the *Division of Allied Health Sciences Bulletin* for specific information.

### Professional Program

An outline of the professional program is contained in the program-specific information in this *Bulletin*.

## Academic Regulations

All students admitted to the Division of Allied Health Sciences are governed by the following academic regulations.

**Grades** The grade code is as follows:

A+, A, or A-	(excellence in academic performance)
B+, B, or B-	(above average achievement)
C+, C, or C-	(average performance)
D+, D, or D-	(lowest passing grade but below desired standards)
F	(failed)
FX	(failed, course repeated)
I	(incomplete)
S	(satisfactory)
P	(passing)
R	(deferred)
W	(withdrawn)

Points are assigned to determine the cumulative grade-point average as follows:

A+ or A	= 4.0	C	= 2.0
A-	= 3.7	C-	= 1.7
B+	= 3.3	D+	= 1.3
B	= 3.0	D	= 1.0
B-	= 2.7	D-	= 0.7
C+	= 2.3	F	= 0.0

No points are assigned for I, S, P, R, W or FX grades.

**Grade-Point Average** Courses transferred from other institutions are not used to calculate the cumulative grade-point average for graduation. All courses that are repeated are evaluated by averaging the grades received regardless of the number of times they are taken. Courses for which the grades of I, S, P, R, W, or FX are assigned are not used to calculate the cumulative grade-point average since there are no points assigned to these grades.

**R Grade, Deferred** The R grade is applicable only to courses approved for that purpose. The grade R (deferred grade) used on the final report indicates that the nature of the course is such that the work of the student can be evaluated only after more than one term.

**Pass/Fail** Pass/fail grading is a student option. Any student in good standing may enroll in elective courses for which the grade assigned is P (pass) or F (failure). Such courses, if passed, are credited toward the degree but would not affect the grade-point average. A failing grade adversely affects the grade-point average. Students may not use the pass/fail option for required courses. No more than one pass/fail course may be taken in any one semester. Students are limited to a maximum of 24 pass/fail credits for the baccalaureate degree and a maximum of 12 pass/fail credits for the associate degree.

**Satisfactory/Fail** A grade of S (satisfactory performance) or F (failure) is used for approved courses. In such courses, the only grades permitted are S/F, and students are notified during the first class session of the S/F grading policy for the course. The credit hours earned with a grade of S count toward graduation, but the S grade will not be calculated in the grade-point average. However, an F grade is computed in the grade-point average. The number of courses taken on an S/F basis does not affect the number of courses permissible on a P/F basis.

**Incompletes** The grade of I (incomplete) indicates that a student made successful progress in a course and completed a majority of the course work satisfactorily but, because of a compelling nonacademic reason, did not complete all of the course work by the end of the grading

period. The course instructor establishes the criteria, procedure, and time limit for the removal of the "I" grade. The time limit, however, may not exceed one calendar year, after which time the "I" grade, if not changed by the instructor, automatically becomes an F.

**Credit by Examination** A student may receive credit for certain courses by successful performance on examinations offered by an academic program within the Division. Under University policy, credit by examination will be recorded simply with the grade of S. Eligibility for credit by examination is determined by the student's program faculty.

**Withdrawal From a Course** With appropriate approval of the faculty and/or admission, withdrawal is permitted at or before mid-semester with an automatic grade of WX. See the sections of this *Bulletin* that deal with programs at the Medical Center, Indianapolis, and with programs at Indiana University Northwest for specific withdrawal procedures. The desire to avoid a low grade is not an acceptable reason for withdrawal from a course.

**Double Major** A double major does not exist in the Division of Allied Health Sciences, and second major options have not been established between the Division and any other academic unit. Each degree in the Division of Allied Health Sciences is a separate academic curriculum, and students may not pursue a double major.

**Multiple degrees** Students earning more than one degree at the same level are required to meet the academic requirements for the degree in each school and be recommended for the degree by the faculty of each school. Students receiving a degree from the Division of Allied Health Sciences are required to complete the professional component in sequence with their class of admission.

**Repeated Courses** An undergraduate who has retaken a course previously failed shall have only the second grade in that course counted in the grade-point average; however, the student's transcript shall record both grades. A grade-point average calculated in accordance with this policy shall be marked with an FX denoting that an F grade has been replaced by a subsequent grade in the course. Students in the Division wishing to use the FX policy should consult with their faculty adviser and must obtain approval prior to retaking the course.

**Remedial Courses** Remedial and refresher courses will not satisfy any course requirement for any Allied Health degree except the nine-credit-hour mathematics sequences (COAS J111, J112, and J113) which may be counted as equivalent to the single three-credit-hour mathematics course 111.

## Academic Standing

**Students in Good Standing** Students must maintain a cumulative and a semester grade-point average of C (2.0) or higher and meet additional programmatic, academic and professional standards in order to be considered in good standing. Students are informed of programmatic, academic and professional standards during program orientation.

**Class Standing** Class standing is assigned according to a student's progress in the professional curriculum rather than by the total of credit hours earned.

**Semester Load** To be considered a full-time student by the University, the student must register for a minimum of 12 credit hours. The maximum load is 20 credit hours. The number of credit hours determining full-time student status may vary with the nature of the program. For any enrollment period required by a Division program, the student is considered to be full-time regardless of the number of credit hours taken during that period. Students wishing to carry more than 17 credits must obtain permission of the program director and dean or his representative. In addition, students should have a cumulative B (3.0) average or have earned a B (3.0) average in their last full semester.

**Probation** Students may be placed on probation for not meeting the standards of academic performance or professional behavior. Undergraduate students will be placed on University academic probation when their cumulative grade-point average falls below C (2.0) or for the semester following one in which they fail to attain a C (2.0) grade-point average. Several Allied Health programs have additional academic and professional standards and failure to meet these program-specific standards will also result in probation. Students will be informed of these standards upon entering an Allied Health program.



Students placed on probation will be notified in writing of this status and of any restrictions placed upon them during the probation period. During the probationary period, the student's academic progress and professional behavior will be evaluated by the program faculty. The program faculty's evaluation and recommendations concerning probation status will be forwarded to the director of the Division of Allied Health Sciences. The student will be removed from probation at the end of the probationary period providing academic progress and professional behavior meet the stated standards. The probationary students will be notified by the division director of their status at the end of the probationary period.

**Dismissal** Students may be dismissed from the Division for failure to meet academic or professional standards. The dean will inform students of such action by letter. Students may not be readmitted to any Division of Allied Health Sciences program for a period of not less than one academic term following dismissal. Dismissed students applying for readmission must complete the admission process again and compete with students seeking admission for the first time.

*Academic Standards* A student in the Division of Allied Health Sciences may be dismissed from the Division when, in the judgment of the faculty, the student has ceased to make satisfactory progress toward a degree. When an undergraduate student fails to attain a C (2.0) grade-point average in any two consecutive semesters; or has a cumulative grade-point average below C (2.0) for two consecutive semesters; or fails to earn higher than a D (1.0) grade-point average in any one semester, the student is automatically considered to be making unsatisfactory progress toward a degree and is thereby eligible for dismissal.

In addition, a student who fails to meet program-specific academic requirements is considered not making satisfactory academic progress toward a degree and may be dismissed. At the time of initial enrollment, each student receives a copy of the program-specific academic requirements.

*Professional Standards* A student failing to meet the standards of professional and personal conduct may be recommended for dismissal. These standards are distributed by each program at the time of initial enrollment.

**Withdrawal and Readmission** Students in good standing who voluntarily and temporarily withdraw from a program will be placed in a temporary inactive status with the Division of Allied Health Sciences. At the time of departure, it is the student's responsibility to arrange in writing for continuation with the individual program director. Students are allowed to re-enroll without review as specified in the continuation agreement. Students must meet any specific academic/clinical requirements associated with re-enrollment under the continuation agreement. Students failing to re-enroll as specified in the continuation agreement are subject to dismissal from the Division of Allied Health Sciences.

Students who withdraw without arranging in writing for continuation with the program director, or fail to enroll in any semester, may be dismissed from the Division of Allied Health Sciences for failing to make satisfactory progress toward a degree. Such students wishing to re-enroll must file an application for admission and will be considered a new applicant.

## Honors

The Division of Allied Health Sciences offers the following honors to recognize superior student performances:

**Degrees Awarded with Distinction** The University recognizes a student's superior performance in course work by awarding the associate or bachelor's degree with one of three levels of distinction: distinction, high distinction, or highest distinction. A student must meet the following criteria to receive a degree awarded with distinction.

1. Calculation of the grade point for honors will be based upon the total number of hours attempted at Indiana University.
  - a. For a baccalaureate degree, a student must have completed a minimum of 96 credit hours at Indiana University.
  - b. For an associate degree, a student must have completed a minimum of 75% of the total credit hours required for that degree at Indiana University.
2. No more than 10 credit hours may be pass/fail.
3. A minimum cumulative grade-point average of 3.5 must have been achieved to be eligible.

4. Three levels of distinction will be recognized and determined as follows:
  - 3.5 through 3.74—Distinction
  - 3.75 through 3.89—High Distinction
  - 3.90 through 4.00—Highest Distinction
5. Unique cases and appeals should be forwarded to the Director of the Division of Allied Health Sciences for consideration.

**Program Award** Division of Allied Health Sciences programs offer awards recognizing leadership, career potential, and service. Students should refer to specific programs for descriptions of these awards.

## Student Rights and Responsibilities

Application to and enrollment in the University constitutes the student's commitment to honor and abide by the practices and policies stated in the University's official announcements, bulletins, handbooks, and other published materials and to behave in a manner that is mature and compatible with the University's function as an institution of higher learning. The Statement of Student Rights and Responsibilities is distributed to all students during program orientation. Students are expected to read this document and, by their enrollment, agree to its contents and additional Division of Allied Health Sciences statements which appear below.

**Nondiscrimination** Students have the right to freedom from unlawful discrimination on the basis of race, religion, sex, age, national origin, or physical handicap.

**Academic Advising** Faculty advisers for students are identified within each program. It is the student's responsibility to seek counseling and guidance. The student is responsible for planning a program to meet degree requirements.

**Appeals** The Division of Allied Health Sciences abides by the appeals procedures for Academic and Disciplinary Due Process discussed in Sections II and III of the Statement of Student Rights and Responsibilities. Students may obtain a copy of the Division's Appeals policy and procedure from the Division Office, Coleman, room 120.

**Attendance** Students are responsible for complying with all attendance requirements which may be established by the Division faculty.

**Cheating and Plagiarism** Faculty and students have rights and responsibilities for learning, teaching, and scholarship within the entire University community. Academic functions are characterized by reasoned discourse, intellectual honesty, mutual respect, and openness to constructive change. Individuals must remain active in avoiding violation of academic ethics.

**Cheating** Dishonesty of any kind with respect to examinations, course assignments, alteration of records, or illegal possession of examinations shall be considered cheating.

It is the responsibility of the student not only to abstain from cheating but, in addition, to guard against making it possible for others to cheat. Any student who helps another student to cheat is as guilty of cheating as the student assisted. The student should also do everything possible to induce respect for the examination process and for honesty in the performance of assigned tasks in or out of class.

**Plagiarism** Honesty requires that any ideas or materials taken from another source for either written or oral use must be fully acknowledged. Offering the work of someone else as one's own is plagiarism. The language or ideas thus taken from another may range from isolated formulas, sentences, or paragraphs to entire articles copied from books, periodicals, speeches, or the writings of other students. The offering of materials assembled or collected by others in the form of projects or collections without acknowledgment also is considered plagiarism. Any student who fails to give credit for ideas or materials that are taken from another source is guilty of plagiarism.

**Clinical Affiliations** Clinical affiliations (field work experiences) are required in most Allied Health programs. The program faculty is responsible for the selection, approval, and assignment of clinical experiences. Although individual student needs and desires will be recognized, the final placement decisions are made by the program faculty. Students are responsible for transportation, fees, self-support, and for following the rules and regulations of the center(s) to which they are assigned. In addition, student conduct must be consistent with the standards of the University and of the profession.

**Confidentiality of Records** Indiana University, in compliance with the General Education Provisions Act, Section 438, titled Family Educational Rights and Privacy Act, provides that all student records are confidential and available only to that student and to the parents if the student is under 21 and dependent as defined by IRS standards. The student may review the record upon request and may ask for deletions or corrections of the record in a hearing process described in detail in the *Statement of Student Rights and Responsibilities*. References, recommendations, and other similar documents may carry a voluntary waiver relinquishing the student's right to review this specific material. The student may also release the record to others by signing a written release available in the offices which maintain records. Further details regarding the provisions of the "Privacy Act" and a list of offices where student records are kept may be found in the *Statement of Student Rights and Responsibilities*.

**Degree Applications** Candidates for an undergraduate degree are responsible for filing an "Intent to Graduate" form in the program office one semester prior to that in which they intend to complete degree requirements. Division program faculty then certify the student's satisfactory completion of degree requirements. If changes in the anticipated date of degree completion occur, students must consult their faculty adviser and file an updated "Intent to Graduate" form.

**Costs** A Division student may seek financial assistance through the Office of Financial Aids. In addition, assistance may be available through the Division of Allied Health Sciences Scholarship Committee, professional associations, other external groups and agencies. Students are responsible for the following costs:

*Fees and Tuition* as established by the Indiana University Board of Trustees

*Books and Supplies*

*Uniforms* During clinical/field experiences, students must adhere to the dress code requirements of the program training site. Students are responsible for providing their own uniforms.

*Transportation* Students are responsible for travel and lodging costs associated with clinical/field work experiences.

**Liability Insurance** Students enrolled in direct patient care contact programs are covered by the University's professional liability insurance.

**Health** Before beginning the patient care portion of a Division program, students may be required to complete a physical examination and/or inoculation program.

**Identification** Student identification cards are issued at any time by the Student Activities Office for Indiana University Northwest students and only at the time of registration for students enrolling on the Medical Center campus.

**International Students** Foreign nationals enrolled in the Division are subject to the same rights and responsibilities as all other Division students. Services are available in the Admissions Office (IUN) or the Dean for Student Services Offices (IUPUI) to assist students with issues related to their status as foreign nationals.

**Orientation** Division of Allied Health Sciences programs require students to attend orientation programs prior to initial enrollment in professional courses. In some instances, these orientation sessions occur prior to the start of the fall semester. Students are responsible for attending these sessions and for the program-specific policies and standards distributed and discussed at that time.

**Professional Conduct** Students are responsible for exhibiting conduct appropriate to their professional training and education. Each Division program distributes standards and policies of appropriate professional conduct at the time of program orientation.

**Registration and Record Changes** It is the student's responsibility to enroll in each semester and satisfactorily complete all courses required for the degree. Division faculty are available to provide academic advising.

Students are responsible for filing the necessary "Student Record Change" form with the Division of Allied Health Sciences as soon as possible following a change of name or permanent address.

Additional information regarding degree requirements and academic standards may be found elsewhere in this *Bulletin*.

### **Allied Health Alumni Association**

This association is a constituent group within the Indiana University Alumni Association. Active membership is open to all graduates of the Division of Allied Health Sciences programs.

The Allied Health Alumni association was officially recognized as a constituent member of the Indiana University Alumni Association in 1976. The young alumni association boasts of an enrollment of over 700 active members.

**For more information, contact Denise Shipley, President, Indiana University Allied Health Alumni Association, 620 Union Drive, Indianapolis, Indiana 46202. Phone: (317) 264-8828.**

# Medical Center, Indianapolis

## Division Office

Edward R. Pierce, Ph.D., M.P.H., *Associate Dean, Indiana University School of Medicine and Director, Division of Allied Health Sciences*

Elton T. Ridley, M.B.A., *Assistant to the Director*

T. Kay Carl, B.S., *Assistant to the Director for Student Affairs*

The Division of Allied Health Sciences, Medical Center, currently offers associate degree programs in Occupational Therapy Technology, Radiologic Sciences, and Respiratory Therapy; and baccalaureate degree programs in Health Service Management, Cytotechnology, Medical Record Administration, Medical Technology, Occupational Therapy, Physical Therapy, Radiologic Sciences, and Respiratory Therapy. Complete descriptions of these programs follow this general information. Information concerning the Division and its programs may be obtained by contacting:

Division of Allied Health Sciences

Coleman Hall, Room 120

1140 West Michigan Street

Indianapolis, Indiana 46223

Telephone: 317-264-4702

## Admission

**Admission Policies** Students must adhere to the Division of Allied Health Sciences' admission policies as described earlier in this *Bulletin*.

**Admission Procedures** Students seeking admission to the associate or baccalaureate degree programs must file the *Application for Admission to the Division of Allied Health Sciences*. Students must complete the application as specified by the instructions on the application form. Applications must be received prior to the deadline specified on the form for each program. Students seeking admission to baccalaureate degree programs must file applications by the deadline in the year prior to the anticipated entry to the program. **All completed applications are to be submitted by the applicants to the Office of the Division of Allied Health Sciences, Coleman Hall, Room 120, 1140 West Michigan Street, Indianapolis, Indiana 46223.**

Students from other universities, colleges, high schools, or foreign nationals who are not Indiana University students, must also file for admission to the University through the Office of Admissions, Indiana University-Purdue University at Indianapolis, 425 Agnes Street, Indianapolis, Indiana 46202.

Students are eligible to be considered for admission to an associate or baccalaureate program when their academic progress shows reasonable probability that entry level requirements can be completed prior to the date of the opening of classes of the year for which application is made. Students should read the Admission Policies and Program Description sections of this *Bulletin* for specific entry level requirements.

For purposes of admission to the professional programs of the Division of Allied Health Sciences, Indiana University School of Medicine, preference will be given to Indiana residents and all students attending Indiana University campuses. Application for admission to the Division of Allied Health Sciences, regardless of program of choice, does not constitute automatic admission to the Division. All applications are reviewed, and selection of a class will be based on Division and program admission criteria. All applications will receive formal notification of their admission status.

## General Degree, Education and Academic Requirements

Students must meet the Division of Allied Health Sciences general degree requirements, general education requirements, academic regulations, and observe the student rights and responsibilities detailed elsewhere in this *Bulletin*. Students should read these sections, as well as the one concerning Academic Standing. Students must also comply with Indiana University-Purdue University-Indianapolis regulations.

**Withdrawals from Courses** With the approval of the faculty adviser, withdrawals are permitted at or before mid-semester with an automatic grade of WX. Students withdrawing through the third quarter of each semester will receive W or WF depending upon student performance in the course. In the last quarter of each semester, students may withdraw with the grade of either W or F at the instructor's discretion, with his approval and the Dean's approval, and dependent upon student performance at the time withdrawal is requested. Petitions for withdrawal after mid-semester are only for compelling nonacademic reasons. The desire to avoid a low grade is not an acceptable reason for withdrawal from a course.

**Honors Program** Each program will recommend to the University students with superior academic performance for degrees awarded with distinction. Students should read the Honors Program section elsewhere in this *Bulletin* for specific requirements.

Program-specific honors may also be awarded, and students shall refer to the following program descriptions for criteria.

## Medical Center—General Information

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, and offices and laboratories for the Department of Anesthesia, Medicine, and Surgery. Also at the Center are the Administration Building, Robert W. Long Hospital, William H. Coleman Hall for Allied Health Sciences, 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 631 beds, and in the fiscal year 1982-83 the clinics had over 100,000 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 618 beds and its outpatient facility, the Regenstrief Health Center, has approximately 4,000 visits per week. 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 2,300.

### Housing at Indianapolis

Application for housing at the Medical Center campus for IUPUI students may be obtained by writing to the Department of Housing, Third Floor Single Student Dorm, 650 Union Drive, Indianapolis, Indiana 46223. Admission to the University does not guarantee housing accommodations on the Indiana University Indianapolis campus. Students must file a separate application for housing in order to reserve a space. Students desiring university housing should apply as soon as they decide to attend school at this campus since a waiting list usually prevails. Students may apply for housing even though they are not yet admitted to a school or division. Room assignments are made on the basis of the date the initial housing application and a \$10 housing application fee is received.

Requests by single students for specific persons as roommates will be honored whenever possible, provided the applications are received at approximately the same time, and both applicants make written requests for each other as roommates on the application form. Dormitory contracts are for an entire academic year or until completion of the degree, whichever comes first. Students desiring housing for the spring semester may sign a one-semester contract.

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 current listings for any given date throughout the year. 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.

In addition, the University manages Park Lafayette, located at 2300 N. Tibbs, featuring one, two, three, and four bedroom units. For information, call IUPUI Real Estate, 264-8264 or Park Lafayette, 635-7923.

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. In the Single Student Dorm residents furnish their own towels, bedspreads, and blankets.

Meals are not included in any housing contract. However a discounted student meal plan is available through the Union Building which is located near the campus dorms and apartments. Cooking is not permitted in student rooms.

Unfurnished and furnished apartments at the Medical Center for married students include efficiency, one-bedroom, and two-bedroom accommodations in the Warthin Apartment Building.

Rates are subject to change by action of the Board of Trustees. A rate sheet will be mailed when an application is requested.

## **Student Activities at Indianapolis**

**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 varsity campuses. The Medical Center chapter was organized in September, 1944.

There are several religious organizations on campus. Information is available in the Student Activities office in the University Library.

**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, softball, badminton, basketball, swimming, and bicycling. Various cultural activities are planned by the student organizations.

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.

**Intercollegiate Athletics** Indiana University-Purdue University at Indianapolis offers competition in a variety of inter-collegiate athletics and club sports for men and women. Since their inception in 1974, athletic teams have been quite competitive throughout the state and region with two individuals receiving coveted all-American titles. As a member of the National Association of Intercollegiate Athletics, (NAIA) men compete in basketball, baseball, and tennis. Women's intercollegiate competitive opportunities include volleyball, basketball and softball. Athletic facilities on campus are among the best.

**Indianapolis** The city of Indianapolis has much to offer the student. The nationally famous Indianapolis Symphony Orchestra 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 University, and Marian College

are all located in Indianapolis. Art galleries, libraries, and museums enrich the city. There are many radio stations, television studios, and 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 School 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 132,904 carefully selected volumes of professional literature, current subscriptions to 1721 foreign and domestic serials, and 1174 microform holdings. 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 quarterly. Three online computer terminals, Bibliographic Retrieval Services, Inc. (BRS), MED-LINE (MEDlars on-LINE) from the National Library of Medicine in Bethesda, Maryland, and Lockheed's DIALOG 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 three 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 Services** The Student Activities Office, Room 002, University Library, coordinates student information and recreational activities. The Message Center, Cavanaugh Hall lobby, assists students and visitors with general information about the University, provides students with a message service for contacting cohorts, and delivers emergency messages. Also, by dialing 264-2782, the student can reach the Message Center, receive class closing information in event of severe weather, and listen to taped messages on a variety of subjects. Student Activities also issues student identification cards, coordinates recreation services in specific buildings on campus, and participates in the Circle City Circuit Festival.

**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 Coleman Hall 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.

Part-time students may be seen in the Health Service for a per visit fee of \$5.00 or less. This charge includes the service of clinic professionals, lab work completed in the clinic, and medi-



cations 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) 335-4191.

**Career Information** The Career Counseling and Placement Office is located in the Business/SPEA Building, Room 2010, 801 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 opportunities. 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 *Financial Aid Form (FAF)* to the Financial Aid Office, 920 W. Michigan, Indianapolis, Indiana 46202. The priority date for submitting applications is March 1 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 3.5 cumulative grade-point average and may be renewed with a 3.5 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 University Grants range from \$100 to \$1000.

The Pell Grant ranges from approximately \$100 to \$1300.

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

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

Students who do not demonstrate financial need may apply for part-time employment through the JOBS program which is also administered through the Financial Aid Office.

**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.

## Academic Calendar for Indianapolis 1983-85

First Semester	1983-84	1984-85
<i>(15 weeks + 7 exam days)</i>		
Registration	R-F, M Aug. 18-19, 22 <sup>2</sup>	TBA
Classes Begin	W Aug. 24	W Aug. 22
Labor Day Recess	M Sept. 5	M Sept. 3
Thanksgiving Recess	T Nov. 22	T Nov. 20
Classes Resume	M Nov. 28	M Nov. 26
Classes End	M Dec. 12	M Dec. 10
Final Exams	T-M Dec. 13-19	T-M Dec. 11-17
<b>Second Semester</b>		
<i>(15 weeks + 7 exam days)</i>		
Registration	W-F Jan. 4-6 <sup>2</sup>	TBA
Classes Begin	M Jan. 9	M Jan. 7
Spring Recess <sup>1</sup>	N Mar. 11	N Mar. 10
Classes Resume	M Mar. 19	M Mar. 18
Classes End	N Apr. 29	N Apr. 28
Final Exams	M-N Apr. 30-May 6	M-N Apr. 29-May 5
Commencement	N May 13 <sup>2</sup>	N May 12
<b>Summer Session I</b>		
<i>(6 weeks)</i>		
Registration	M-T May 7-8 <sup>2</sup>	TBA
Classes Begin	W May 9	W May 8
Memorial Day Holiday	M May 28	M May 27
Classes End	W June 20	W June 19
<b>Summer Session II</b>		
<i>(6 weeks)</i>		
Registration	R-F June 21-22 <sup>2</sup>	TBA
Classes Begin	M June 25	M June 24
Independence Day Holiday	W July 4	R July 4
Classes End	M Aug. 6	M Aug. 5

<sup>1</sup> Recess begins after last class this date.

<sup>2</sup> Tentative dates, TBA—To be announced.

## Academic Programs, Medical Center

### Cytotechnology

**Director:** *Professor Nordschow*

**Medical Director:** *Assistant Professor Glant*

**Program Director:** *Associate Professor Wall*

*Assistant Professor O'Brien; Instructor Crabtree*

Cytotechnology is a medical laboratory specialty in which microscopic study of exfoliated, abraded, and aspirated cells from the human body is performed. 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, thus increasing the chances of a cure. Cytology also serves as a prognostic tool during the course of cancer treatment programs. It aids in establishing the diagnosis of endocrine disorders and in the detection of some pathogenic microorganisms and other benign disease processes.

An integral relationship between the program and the cytotechnology service laboratory provides the student with maximum exposure to a functioning cytology laboratory. The learning process follows a structured, logical sequence for the presentation of essential concepts and skills. Individual instruction, demonstrations, lectures, and conferences are all utilized as methods of instruction. Student inquiry and research that will foster greater understanding and possible revision of presented material is encouraged. Opportunity is provided for the student to pursue special interests in the field of cytology.

The graduates of the Cytotechnology program will possess a comprehensive, fundamental knowledge of clinical cytology and will be eligible for the certification examination administered by the Board of Registry leading to certification and registration in cytotechnology with the American Society of Clinical Pathologists. This knowledge will enable them to function as competent cytotechnologists, and will provide a basis for continuing education and professional growth. They will be prepared for management, supervisory, and educational responsibilities and should seek ways to contribute to the growing body of knowledge in clinical cytology. They will realize their position in the total health care structure and understand their legal, ethical, and moral responsibilities to the employers and communities they serve. Cytotechnologists normally practice in hospitals, laboratories, or research laboratories.

The Cytotechnology program is offered on the Indiana University Medical Center campus, which has modern educational and medical facilities. Classroom facilities and faculty offices are located on the fourth floor of Fesler Hall. The combined student and cytology service laboratory is located on the third floor of Indiana University Hospital. Cytology laboratories located in Wishard Memorial Hospital and Veterans Administration Hospital are also utilized.

The curriculum of the Cytotechnology program is accredited by the Committee on Allied Health Education and Accreditation (CAHEA) in collaboration with the American Society of Cytology.

**Admission Requirements** As grade-point average is a reflection of self-motivation, self-discipline, and the desire to achieve, favorable consideration is given to applicants with high grade-point averages. In addition, proficiency must be demonstrated in biological and physical sciences. Candidates for this program should work well with others, have a genuine desire to improve the health of mankind, and be willing to accept the responsibilities of providing health care service.

Students must submit Division applications between September 1 and December 31 prior to the year for which they seek entrance to the program. Students accepted into the program must complete the Division's and the following programmatic admission requirements prior to the first day of classes.

1. Satisfactory completion of 90 semester credit hours, including the Division's General Education Requirements and specific program prerequisite courses as stated below. Included in these 90 credit hours must be a minimum of 25 semester hours in the biological sciences. 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.

2. Attain a cumulative grade-point average of 2.0 or better and a biology grade-point average of 2.5 or better on a 4.0 scale (applied at interview).
3. Attain a minimum grade of 2.0 (C) in all of the program prerequisite courses.
4. Appear for an interview with the program admissions committee.
5. Meet the programmatic technical requirements.
6. Students accepted into the professional program must complete a health form, immunization card, chest x-ray, and eye examination before classes begin.

**Awards** Recommendations for degrees awarded with distinction are based upon superior academic performance. The Cytotechnology program recognizes superior academic and professional conduct with the "Outstanding Student Award" which is awarded to a graduating senior.

**Curriculum** The following prerequisite course of study must be completed to be eligible for admission. Students should consult with their academic counselors for appropriate courses and semester sequence in order to complete prerequisites. The code (G) indicates a course which meets the Division's General Education Requirements.

#### Prerequisites

Written Communications (G) (3 cr.)

Verbal Communications (G) (3 cr.)

Humanities (G) (3 cr.)

College Algebra (G) (3 cr.)

Introductory Biology (G) (4-5 cr.)

Social-Behavioral Science (G) (6 cr.)

Chemistry I (with lab) for Science majors (G) (4-5 cr.)

Chemistry-sequential course(s) for Science major beyond above (4 cr. minimum; 5-8 cr. preferred)

Human Anatomy-Physiology (5-10 cr.)

Advanced Science: A minimum of three (3) of the following:

Microbiology with laboratory (4-5 cr.)

Developmental Anatomy of Embryology with laboratory (4-5 cr.)

Genetics (3 cr.)

Animal Cell Physiology with laboratory (4-5 cr.)

Histology with laboratory (4-5 cr.)

(With permission of the program faculty, alternative junior or senior level courses in biological sciences may be accepted as a replacement for one of these.)

**Electives** The following list is not meant to be all inclusive or mandatory: medical microbiology, endocrinology, parasitology, virology, cytogenetics, computer science, management, organic chemistry, biochemistry, physics, advanced mathematics, and statistics.

#### Senior (Professional Program)

##### Semester I

Hormonal Cytology AHLT A403 .....2 cr.

Gynecologic Cytology, Normal

AHLT A412 .....3 cr.

Gynecologic Cytology, Abnormal

AHLT A422 .....3 cr.

Techniques in Medical Cytology

AHLT A462 .....2 cr.

Seminar in Cytology AHLT A470 .....2 cr.

Medical Care I

AHLT W374 .....3 cr.

**Total** .....15 cr.

##### Semester II

Pulmonary Cytology AHLT A432 .....3 cr.

Cytology of Body Fluids

AHLT A442 .....2 cr.

Urinary Tract Cytology

AHLT A454 .....2 cr.

Seminar in Cytology AHLT A470 .....2 cr.

Medical Care II

AHLT W471 .....3 cr.

Cytology of the Gastrointestinal

Tract AHLT A453 .....2 cr.

Certification Internship

AHLT A465 .....(R)

Health Organization and Management

AHLT X300 .....3 cr.

**Total** .....17

**Summer***Semester III***Fine Needle Aspiration**

Cytology AHLT A455 ..... 2 cr.

**Certification Internship**

AHLT A465 ..... 6 cr.

**Total** ..... 8 cr.

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

## Health Services Management

Director: *Assistant Professor Foegelle*

Health Services Management is an interdisciplinary baccalaureate management degree. It is a career mobility degree for credentialed health specialists and is offered on the Indianapolis campus only.

The three-part curriculum (general education, health specialty concentration, and management major) is founded on the following beliefs:

- Departmental managers in hospitals should be experienced and credentialed health practitioners, and should also be trained managers.
- Health specialist managers should have a well-rounded education founded upon the liberal arts and sciences.
- Adult students should be able to complete all requirements for the degree on a part-time basis and without interrupting employment.

Upon graduation, the student will have attained knowledge well beyond the technical level. This conceptual understanding of the complexities and uniqueness of the organization and delivery of health services should increase the graduate's sense of self-satisfaction as well as increase the ability to effectively manage health delivery resources at the departmental level.

The degree is offered only on the Indianapolis campus. The program office is located in Room 322 of Coleman Hall on the Medical Center campus. Classes are held on the IUPUI and Medical Center campus.

**Admission Requirements** Applicants must be fully credentialed health specialists. Applicants with previous college experience must have a cumulative grade-point average of 2.5 (on a scale where A = 4.0) and a non-health component grade-point average of 2.5. The procedure for admission is:

1. Applicants not previously admitted to the Indiana University system must file an Undergraduate Application with the Office of Admission, IUPUI—Cavanaugh Hall 103, 425 Agnes Street, Indianapolis, Indiana 46202. Along with this application, send official transcripts from all colleges and universities attended and request that a copy of the Credit Transfer Report be sent to the Division of Allied Health Sciences.
2. Submit a complete application for admission to the Division of Allied Health Sciences. An application is available from the Division of Allied Health Sciences, Coleman Hall 120, 1140 West Michigan Street, Indianapolis, Indiana 46223.

**Degree Requirements** Students must meet all of the following conditions for graduation:

1. Qualify for matriculation as a student in good standing.
2. Be fully and currently credentialed in a health specialty and submit evidence of appropriate certification, registration, or licensure.
3. Complete the full-time equivalent of two years post-graduation/credentialing work experience in the health specialty.
4. Complete at least 123 semester hours of academic credit according to the following minimum requirements:
  - 45 hours in the general education area
  - 39 hours in the health specialty concentration
  - 39 hours in the major

Also, of the total 123 hours, the last 30 hours must be taken on the Indianapolis campus.

5. Obtain a C or higher in each course taken, a 2.3 grade-point average each semester, and maintain a cumulative G.P.A. of at least 2.5.
6. File an "Intent to Graduate" form during the last regular semester of enrollment prior to graduation.

## Curriculum

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

*Humanities* Credit requirement, 18 hours

1. Required courses; 12 hours
  - 3 hours - American History
  - 3 hours - English composition
  - 3 hours - philosophy, logic, or others
  - 3 hours - public speaking.
2. Elective courses; 6 hours selected from: comparative literature, English, folklore, classical studies, extracultural studies (including languages and literature), history, speech communication, minority studies, journalism, music, philosophy, religious studies, telecommunications, and visual and performing arts, as approved by program faculty.

*Social and Behavioral Sciences* Credit requirement, 18 hours

1. Required courses; 12 hours
  - 3 hours - economics
  - 3 hours - political science
  - 3 hours - psychology
  - 3 hours - sociology
2. Elective courses; 6 hours selected from: anthropology, economics, history, labor studies, political science, psychology, public affairs, social work, extracultural studies, forensic studies, geography, journalism, minority studies, telecommunications, and sociology, as approved by program faculty.

*Mathematical and Natural Sciences* Credit requirement, 9 hours

1. Required courses; 3 hours of mathematics
2. Elective courses; 6 hours selected from: astronomy, biology, chemistry, computer science, geography, geology, mathematics, microbiology, and physics, as approved by program faculty.

**Health Specialty Concentration** Credit requirement, 39 semester hours. Students who received their technical training in certain accredited technical programs may have previously earned academic credit applied toward meeting the health specialty requirement. Students who received their technical training in nonaccredited or noncredit awarding programs and who are fully credentialed in their health specialty may apply for special credit. Where necessary, courses to complete the 39 hours are selected from among certain approved courses that support, complement, or extend technical preparation.

**Major** Credit requirement; 39 semester hours, as follows:

*Required courses* Credit requirement, 30 hours

1. 3 hours - accounting
2. 3 hours - statistics
3. 6 hours - personnel supervision
4. 18 hours - sequenced courses to be taken during the last year, in this order:
  - 3 hours - Health Care Management Communications (AHLT X400; Summer Session II)
  - 3 hours - Health Care Organization and Management Theory (ALHLT 410; Fall Semester)
  - 3 hours - Hospital Organization and Administration (AHLT X420; Fall Semester)
  - 3 hours - Financial Management of Health Care Organizations (AHLT X430; Spring Semester)
  - 3 hours - Health Issues and Problems (AHLT X440; Spring Semester)
  - 3 hours - Health Care Personnel Management and Decision Making (AHLT X450; Summer Session I)

*Elective courses* Credit requirement; 9 hours selected from applicable courses, as approved. (Examples: business, computer science, economics, principles or methods of education, English, health services management, philosophy, religion, technical communications, labor studies, mathematics, medical anthropology, personnel supervision, political science, public affairs, statistics, business or medical ethics, sociology, business or administrative writing or speaking.)

**For additional information contact Professor Walter E. Foegelle, Program Director, Health Services Management Program.**

## Medical Record Administration

**Director:** Associate Professor McKenzie

Associate Professor Ridley; Assistant Professors Ashton, Miller

The graduate 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 plans, develops, and directs a medical record system to aid in patient care, and to 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 in hospitals, nursing homes, and related agencies.

While most medical record administrators are employed in the medical record departments of acute care general hospitals, others provide services to insurance companies, nursing homes, psychiatric facilities, commercial data collection systems, drug companies, professional associations and various governmental agencies. In addition to functioning in the traditional role of medical record administrator, many practitioners conduct continuing medical education and quality assurance programs, serve as data specialists, collect information for malpractice claims, apply computer techniques to existing data collection programs, teach, serve in various administrative capacities or maintain consulting practices.

Medical record administrators must be able to supervise personnel, manage office resources, communicate effectively, devise systems and function as intermediaries in various organizational settings.

The Medical Record Administration program is offered on the Indiana University Medical Center campus, which has modern educational and medical facilities. The program offices and laboratory are located in Coleman Hall. Classes also take place in other Medical Center buildings (Medical Science Building, Fesler Hall, Emerson Hall, and University Hospital). Clinical practice is centered in hospitals and other health care facilities in the Indianapolis area. A clinical affiliation is arranged for each student at the end of the senior year. The affiliation site may be located within Indiana or in one of the surrounding states.

The Medical Record Administration program is professionally accredited by the Committee on Allied Health Education and Accreditation (CAHEA) in collaboration with the American Medical Record Association (AMRA).

Graduates may seek registration as a Registered Record Administrator (RRA) by examination offered by the American Medical Record Administration.

**Admission Requirements** Admission to the Medical Record Administration program is primarily based upon grade-point average. In addition to the admission policies for the Division, applicants must meet the following criteria:

1. Satisfactorily complete 90 semester hours of the required prerequisites and electives.
2. Maintain an accumulative GPA of C (2.0) or better for all course work completed by the time of interview. For admission purposes, the GPA will be calculated by averaging the grades of all repeated courses excluding courses in which the student has exercised the FX option and the one semester in which the student has been granted academic bankruptcy.
3. Attain a grade of C (2.0) or better in anatomy, physiology, computer science, statistics, administrative systems, and personnel management.
4. Interview with the program admissions committee.
5. Meet the technical standards of the Division, when applicable.

Because some prerequisite courses are not currently offered at every campus, students must seek specialized program planning and course substitution approval from the Director of the program. For further information, contact Professor Mary L. McKenzie, Program Director.

Applications for the program must be submitted to the Division Office between September 1 and December 1 of the year preceding the planned date of entry.

**Awards** Based upon superior performance, the program will recommend qualified students be awarded degrees with distinction.

**Curriculum** The following prerequisite courses are required. Students should consult with their academic counselors for appropriate courses and semester sequence in order to complete prerequisites. The code (G) indicates a course which meets the Division's General Education Requirements.

#### **Prerequisites**

English Composition (G) (3 cr.)  
 Mathematics (G) (3 cr.)  
 Psychology (G) (6 cr.)  
 Sociology (G) (6 cr.)  
 Speech (G) (3 cr.)  
 Ethics Or Medical Ethics (G) (3 cr.)  
 Literature, Philosophy or Art Sequence (G) (6 cr.)  
 Human Anatomy (with lab.) (G) (5 cr.)  
 Human Physiology (with lab.) (G) (5 cr.)  
 Microbiology (G) (3 cr.)  
 Statistics (G) (3 cr.)  
 Administrative Systems (3 cr.)  
 Typing (or proficiency) (2-3 cr.)  
 Introduction to Accounting I and II (6 cr.)  
 Management and Behavior in Organizations (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), research methods, computer sciences, economics, health communications, chemistry, biology, management of administrative services, management of data systems, and foreign languages or classics.

#### **Senior (Professional Program)**

##### *Semester I*

Medical Record Science 1	
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.
Clinical in Medical Record Technology	
AHLT M357.....	.1 cr.
<b>Total .....</b>	<b>18 cr.</b>

##### *Semester II*

Hospital Organization and Management	
AHLT M322.....	.2 cr.
Medical Care II AHLT W471.....	.3 cr.
Medical Record Science II	
AHLT M412.....	.5 cr.
Directed Practice Experience II	
AHLT M442.....	.6 cr.
Health Organization and Management	
AHLT X300 .....	.2 cr.
<b>Total .....</b>	<b>18 cr.</b>

##### *Summer Session I*

Clinical in Medical Record	
Administration .....	.4 cr.
<b>Total .....</b>	<b>.4 cr.</b>

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



## Medical Technology

**Director:** *Professor Nordschow*

**Associate Director:** *Associate Professor Feeley*

*Professors French, Griep, Hicks, Moorehead, Oei, Smith; Associate Professors Allen, Bartlett, Bonderman, Eitzen, Gartner, Glick, Hocker, Kasper, McCarthy, Proksch, Wheeler; Assistant Professors Leland, Marler, Ryder, Young*

Medical technology is a science aimed at quality performance of clinical laboratory procedures on biologic samples from patients. The results of these procedures provide important patient data which aid the physician in the diagnosis and treatment of disease. The Medical Technology program is designed to prepare the student to:

1. Demonstrate theoretical knowledge and technical skills in the clinical laboratory by successful completion of written and practical examinations.
2. Apply both analytic and practical solutions to problems in laboratory testing.
3. Identify normal and abnormal variations in test results and/or patterns of data as being technical, mechanical or physiological in origin.
4. Correlate test results within and between sections of the clinical laboratories, which provide identification and confirmation of a disease process.
5. Evaluate analytical procedures and/or instrumentation for the purpose of updating methodologies and for cost-benefit analysis.
6. Be adaptable to various laboratory environments with regard to procedures performed, policies set forth, and interpersonal relations.
7. Pass National Certification Examinations.

The first three years of the Medical Technology curriculum are designed to provide a broadly-based background including specific chemistry, mathematics and biological science requirements, as well as opportunity to elect courses from the liberal arts. The fourth calendar year is spent in a combined didactic and laboratory experience.

The graduate 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. Graduates are eligible to apply for National Certification Examinations.

The Medical Technology program is offered at Indiana University Medical Center at Indianapolis. The program offices, student laboratory, and classrooms are located on the fourth floor of Fesler Hall. The clinical facilities utilized are the laboratories of the Department of Pathology, Indiana University School of Medicine, University Hospitals.

The curriculum of the Medical Technology program is fully accredited by the Committee on Allied Health Education and Accreditation.

**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. Each student applying for admission is evaluated according to the criteria listed below. The student must:

1. Satisfactorily complete 90 semester hours including the Allied Health Sciences general education requirements and program prerequisites.
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 4.0 system.
3. Attain no less than a grade of C- in the life and physical science prerequisite courses.
4. Interview with the admissions committee of the Medical Technology program.
5. Submit an application and a complete transcript of coursework to the Division of Allied Health Sciences between September 1 and December 1 of the year prior to desired entry into the program.

**Awards** Based on academic performance, the program will recommend students for degrees awarded with distinction in accordance with the Division's Honor criteria. The program recognizes two superior students meeting specific academic performance criteria for the senior/clinical year with the Medical Technology Academic Achievement Award.

**Curriculum** The following prerequisite courses must be completed. Students should consult with their academic counselors for appropriate courses and semester sequencing for timely completion of prerequisites. The code (G) indicates a course which meets the Division's General Education Requirements.

### Prerequisites

Written Communications (G) (3 cr.)

Verbal Communications (G) (3 cr.)

Humanities (G) (3 cr.)

Social-Behavioral Science (G) (6 cr.)

**Biological Sciences** Applicant must complete, by entry date, at least 18 hours (or the equivalent) of biology, to include the following courses:

1. Introductory Biology (G)

2. Microbiology (with lab)

3. Human Physiology

4. Immunology

Recommended electives include: Medical Microbiology, Genetics, Cell Physiology.

**Chemistry** Applicant must complete, by entry date, at least 8 hours (or the equivalent) of chemistry, to include the following courses:

1. Qualitative (with lab) (G)

2. Quantitative (with lab)

3. Organic I (with lab)

4. Biochemistry, Clinical Chemistry, or Organic II to complete the 18 hours.

**Mathematics and Physics** Applicant must complete, by entry date, the following courses:

1. Physics

2. Mathematics (must be a credit course—remedial course not accepted) (G)

3. Statistics

**Electives** The following is a list of suggested elective areas. It is not meant to be all inclusive or mandatory: basic human anatomy, anthropology, developmental anatomy, introduction to computers, endocrinology, medical terminology, psychology, virology, comparative anatomy, embryology.

**Professional Curriculum** The Medical Technology professional program begins in August and is completed in July of each calendar year. Students progress through the professional courses on a sequential basis.

### Semester I

Clinical Chemistry AHLT C406 .....6 cr.

Diagnostic Medical Microbiology

AHLT C411 .....6 cr.

Serology AHLT C409 .....2 cr.

Parasitology AHLT C420 .....2 cr.

**Total** .....16 cr.

### Summer Session I

Blood Banking AHLT C408 .....4 cr.

Topics in Medical Technology

AHLT C412 .....2 cr.

**Total** .....6 cr.

### Semester II

Hematology AHLT C407 .....6 cr.

General Externship I AHLT C401 .....2 cr.

General Externship II AHLT C402 .....2 cr.

General Externship III AHLT C403 .....2 cr.

**Total** .....12 cr.

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

## Non-University Hospital Accredited Professional Programs in Medical Technology

The Division of Allied Health Sciences maintains an affiliation agreement with a small number of professionally accredited schools of Medical Technology outside the Indianapolis area to assist qualified pre-allied health students unable to gain admission into or attend the Division's Medical Technology program professional year of clinical education at the Medical Center in Indianapolis. **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 the period of this clinical training.** Through an agreement with each hospital, students will be charged a fee of no less than the current University tuition rate of 32 semester hours. Upon completion of the clinical year, the hospital school in which the 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 credits (\$5.00 per credit hour), the Division of Allied Health Sciences, School of Medicine, will authorize 32 hours of special credit towards an Indiana University degree.

A list of the hospital accredited programs with which the Division affiliates can be obtained from the Division office in Indianapolis or Gary, and from any University Division counselor in the Indiana University system.

## Occupational Therapy

**Director:** Appointment Pending

**Associate Director for OTT:** *Associate Professor Simek*

*Associate Professors Hamant, Weeks; Assistant Professors Hersch, Kiel; Instructors Lamport*

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.

The Occupational Therapy Program at Indiana University 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.

The Occupational Therapy offices are located in Coleman Hall, Third Floor. Classrooms are located in Coleman Hall, Second Floor, and Ball Residence, Basement. Clinical training occurs in Medical Center hospitals and local health care facilities. Clinical internship training may be located throughout the United States depending on the student's assignment.

## Baccalaureate Degree Program

Upon completion of the baccalaureate program in Occupational Therapy, the graduate will be qualified to meet professional standards for occupational therapy practice. The graduate will demonstrate entry level competence in basic knowledge and application of physical, behavioral, and medical sciences to the practice of occupational therapy; basic occupational therapy skills; professional communication; occupational therapy theory and process (initial screening, evaluation, planning, implementation, and reevaluation); departmental and program administration; self understanding and the realization of the effect that one's behavior has on the patient/client and others; upholding the standards of the profession and identifying the need for continuing professional education and growth; and relating occupational therapy to the total health care system. Graduates of the baccalaureate program are eligible to complete 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.

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

**Admission Requirements** Admission to the Occupational Therapy program at the Baccalaureate level is based on the cumulative grade-point average of previous college work and a personal interview. Accepted students must successfully complete prerequisite courses prior to being eligible to begin the professional program.

It is the policy of the Occupational Therapy Baccalaureate program that a minimum GPA of 2.5 (on a 4.0 scale) and a minimum interview score of 2.0 (on a 4.0 scale) be required for admission into the program. This policy is implemented by the program admissions committee when the incoming class of students is selected from the applicant pool.

Specific performance policies for continuation in the program are distributed to students with their letter of acceptance.

Applications must be submitted between September 1 and December 1 of the year prior to anticipated entry to the program.

**Awards** The program faculty will recommend students with superior academic performance to the University for degrees awarded with distinction. The Carol Nathan Leadership Award is presented annually to a senior selected by the senior class and the faculty as having demonstrated outstanding leadership potential. The award is in recognition of Professor Carol Nathan, who was Director of the Occupational Therapy Program from 1968-1981.

## 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 of specific program prerequisites and electives. Courses coded with (G) meet the Division's General Education Requirements.

### Prerequisites

Written Communications (G) (3 cr.)

Verbal Communications (G) (3 cr.)

Humanities (G) (3 cr.)

College-level Mathematics (G) (3 cr.)

Introductory Biology (G) (4-5 cr.)

Introductory Chemistry (with lab) (G) (4-5 cr.)

Psychology (G) (6 cr.)

Abnormal Psychology (3 cr.)

Sociology (6 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: developmental anatomy, anthropology, business, community health, creative arts, ethics, government, group dynamics, philosophy, psychology, sociology, special education, teaching methods, typing.

### **Junior (Professional Program)**

#### *Semester I*

Medical Terminology, AHLT S103.....	1 cr.
Fundamentals of O.T., AHLT T203.....	3 cr.
Occupational Therapy Techniques I AHLT T348 .....	1 cr.
Occupational Behavior and Human Development, AHLT T350.....	5 cr.
Occupational Therapy Techniques III, AHLT T351 .....	1.5 cr.
Medical Care I, AHLT W374.....	3 cr.
Functional Neuroanatomy, AHLT T450 .....	3 cr.
<b>Total</b> .....	<b>17.5 cr.</b>

#### *Semester II*

Clin Psych for O.T. AHLT T300.....	2 cr.
Practicum I, AHLT T325.....	1 cr.
Occupational Therapy Techniques II, AHLT T349.....	1 cr.
Occupational Therapy Techniques IV, AHLT T352.....	1.5 cr.
Occupational Therapy Techniques V, AHLT T353.....	1 cr.
Psychosocial Dysfunction Theory and Practice I, AHLT T361.....	2.5 cr.
Physical Dysfunction Theory and Practice I, AHLT T362.....	2.5 cr.
Professional Writing and Interview Skills, AHLT T363 .....	1 cr.
Kinesiology, AHLT W376.....	3 cr.
Medical Care II, AHLT W471 .....	3 cr.
<b>Total</b> .....	<b>18.5 cr.</b>

### **Senior (Professional Program)**

#### *Semester I*

Health Communication, COMM C392 ..	3 cr.
*Practicum II, AHLT T426 .....	1 cr.
Management of Occupational Therapy Services, AHLT T460.....	4 cr.
Psychosocial Dysfunction Theory and Practice II, AHLT T461 .....	2 cr.
Physical Dysfunction Theory and Practice II, AHLT T462 .....	2 cr.
Introduction to Research in Occupational Therapy, AHLT T463.....	1 cr.
Medical Care III, AHLT W472.....	2 cr.
Electives .....	0-5 cr.
<b>Total</b> .....	<b>15-20 cr.</b>

\*The name of this course will be Practicum III until the fall of 1984 when it will change to Practicum II.

#### *Semester II*

Field Work Experience I, AHLT T495 ...	5 cr.
(3-month internship)	
Field Work Experience II, AHLT T496.....	5 cr.
(3-month internship)	
<b>Total</b> .....	<b>10 cr.</b>

**For further information contact Program Director, Occupational Therapy Program.**

### **Associate Degree Program**

The Associate Degree program is two years in length. The graduate occupational therapy assistant is a technically qualified member of the health team who functions under 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.

Upon completion of the Associate Degree program in Occupational Therapy Technology, the graduate will be qualified to:

1. Meet all requirements for employment as an occupational therapy assistant at an entry employment level.
2. Function with technical proficiency in occupational therapy techniques including: fabrication of splints, activities of daily living, adaptive equipment, craft modalities, and group activities.

3. Function in the analysis of occupational performance and the components of performance of patients/clients as related to the occupational therapy process with emphasis on teaching and occupational interviewing.
4. Function in a variety of environmental settings in a program emphasizing occupational performance for any given age group.

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. This examination is held throughout the country in January and June of each year.

The associate degree program in Occupational Therapy Technology is approved by the Accreditation Committee of the American Occupational Therapy Association.

**Admission Requirements** The quality of prior academic performance and a personal interview are considered in candidate selection. Applications must be submitted by April 1 of the year of anticipated entry to the program.

**Awards** The program will recommend students with superior academic performance for degrees awarded with distinction. The Erna Simek Outstanding Student Award is presented annually to a second-year student who has been selected by peers and faculty as having demonstrated outstanding performance.

**Curriculum** 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. The code (G) indicates courses which meet the Division's General Education Requirements.

### First Year (Technical Program)

#### *Semester I*

Medical Terminology AHLT S103 .....	1 cr.
English W131 (G) .....	3 cr.
Human Biology N212 (G) .....	2 cr.
Human Biology N213 (G) .....	1 cr.
O.T. Arts & Crafts Technique	
AHLT S101 .....	3 cr.
Psychology B104/B105 (G) .....	3 cr.
Fundamentals of O.T. AHLT T203 .....	3 cr.
<b>Total .....</b>	<b>16 cr.</b>

#### *Semester II*

Life Span Development B390 .....	3 cr.
Sociology R100 (G) .....	3 cr.
Human Biology BIOL N214 (G) .....	2 cr.
Human Biology BIOL N215 (G) .....	1 cr.
Therapeutic Group Activities	
AHLT S102 .....	3 cr.
Abnormal Psychology B380 (G) .....	3 cr.
Community Practicum AHLT S231 .....	1 cr.
<b>Total .....</b>	<b>16 cr.</b>

### Second Year (Technical Program)

#### *Semester III*

Medical Care I AHLT W374. ....	3 cr.
Psychopathology PSYCH N303. ....	2 cr.
Kinesiology AHLT S160 .....	2 cr.
Speech COMM C110 (G) .....	3 cr.
Daily Life Skills AHLT S205 .....	2 cr.
Therapeutic Activities I AHLT S209. ....	3 cr.
Woodworking	
Teaching Techniques	
Leather	
Clinical Observation AHLT S131 .....	1 cr.
<b>Total .....</b>	<b>16 cr.</b>

#### *Semester IV*

Medical Care II AHLT W471 .....	3 cr.
O.T. Assistant Theory I AHLT S251 .....	2 cr.
O.T. Assistant Theory II	
Theory II AHLT S252 .....	2 cr.
Clinic Management AHLT S272 .....	2 cr.
Adaptations of Daily Life Skills	
AHLT S206 .....	1 cr.
Adaptive Equipment	
Therapeutic Activities II	
AHLT S210 .....	2 cr.
Fibercrafts	
Ceramics	
Therapeutic Activities III AHLT S212 ....	1 cr.
Splinting	
Field Practicum AHLT S234. ....	3 cr.
<b>Total .....</b>	<b>16 cr.</b>

### Summer Session

Field Work Experience I AHLT S291 (2 cr.)

Field Work Experience II AHLT S292 (2 cr.)

(Two 6-8 week field experiences in assigned occupational therapy clinical areas. Students must be prepared to assume financial responsibility for their own expenses during this period.)

**For further information contact Professor Erna Simek, Associate Program Director for Occupational Therapy Technology Program.**

## Physical Therapy

**Director:** *Associate Professor Porter*

*Professor Emeritus Ekstam; Assistant Professors Emeritus Ladue, Young; Associate Professors Howell, Magee; Assistant Professors Bruckner, Marzouk; Instructor Korba*

As a member of the health care team, physical therapists help restore clients to normal function of the musculoskeletal and other systems through treatment utilizing therapeutic exercise, physical agents, and assistive devices. The client's physical therapy needs are determined through evaluating muscle strength and tone, joint status, posture, sensory status, functional mobility, exercise tolerance as it relates to cardiorespiratory status, skin condition, pain, and other medical conditions which impair physical function. Physical therapists are concerned with health promotion and disease prevention as well as restoration of function following disease, injury, or loss of a body part. In addition to patient care, the physical therapist participates in administrative, teaching, and research activities and provides consultative services. Physical therapists work in hospitals, outpatient facilities, industrial clinics, governmental and voluntary health agencies, educational settings, extended care facilities, physicians' offices, and private practice settings.

While many specialties exist in the practice of physical therapy, the educational experiences of the Physical Therapy Program curriculum are designed to graduate a generalist. Specialization in a certain area of physical therapy is developed through continuing or graduate education. The curriculum integrates lecture and laboratory classwork with patient care experiences. Full-time clinical affiliations occur during the summer of the junior year and the second semester of the senior year. The Physical Therapy Program course of study develops an understanding of normal and abnormal physical structure and function by progressing learning from simple to complex concepts. The curriculum focuses on the management of patient problems rather than procedures. The graduate of the Physical Therapy Program demonstrates technical competencies in physical therapy procedures, the basic skills of research, administration and teaching, and the ability and interest to continue his own professional development.

The legal practice of physical therapy in Indiana is regulated by the Physical Therapy Practice Act. To qualify for licensure, an individual must be a graduate of an accredited educational program and successfully complete the licensure examination.

Physical Therapy Program offices are located in Coleman Hall on the Medical Center campus. Lecture and laboratory classes are located in Coleman Hall, Ball Annex, and other buildings on the Medical Center campus. Clinical education occurs throughout the professional course of study in facilities located in Indiana and other states.

The Physical Therapy Program is accredited by the American Physical Therapy Association and 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. All prerequisite course work must be completed with a minimum grade of C. To be eligible for consideration, the applicant must have a minimum cumulative average of 2.5 on a 4.0 scale in all attempted hours and a 2.7 on a 4.0 scale in all mathematics and science courses. A minimum interview performance standard must be met. By the time of the interview, the applicant must have completed 2/3 of the mathematics and science course work. Accepted applicants must maintain a 2.0 grade-point average in each semester following notification of their status.

**Awards** The program recommends to the University superior academic students for degrees awarded with distinction.

The Constance Brown Memorial Scholarship, established in memory of a deceased classmate, is awarded to an outstanding junior physical therapy student.

The Frances C. Ekstam Scholarship, in honor of the Physical Therapy Program’s first director, is awarded to an outstanding senior physical therapy student.

**Curriculum** Prior to entering the program, the student must complete the following prerequisites. Courses coded with (G) meet the Division’s General Education Requirements.

**Prerequisites**

- English Composition (G) (2 cr.)
- Public Speaking (G) (2 cr.)
- Sociology Electives (G) (6 cr.)
- Psychology Electives (G) (6 cr.)
- Animal Biology (G) (4 cr.)
- Human Anatomy (4-5 cr.)
- Chemistry (with a lab and an introduction to organic chemistry) (G) (8 cr.)
- Physics (with a lab and covering heat, light, sound, electricity, and simple machines (8-10 cr.)
- Introductory Statistics (including descriptive and inferential statistics) (G) (3 cr.)
- Humanities (G) (2 cr.)

**Junior (Professional Program)**

*Semester I*

Human Anatomy ANAT D323	.5 cr.
Human Physiology PHYS F305	.5 cr.
Medical Care I AHLT W374	.3 cr.
Physical Therapy Modules	
Orientation to Physical Therapy AHLT P310	.1 cr.
Applied Anatomy for Physical Therapists AHLT P311	.2 cr.
Physical Therapy Theories and Procedures AHLT P312	.2 cr.
<b>Total</b>	<b>.18 cr.</b>

*Semester II*

Medical Care II AHLT W471	.3 cr.
Applied Neuroanatomy AHLT W324	.3 cr.
Physical Therapy Modules	
Human Development AHLT P300	.2 cr.
Physical Therapy Management of Orthopedic Conditions AHLT P313	.3 cr.
Physical Therapy Management of Soft Tissue Injuries AHLT P314	.3 cr.
Physical Therapy Management of Arthritic Conditions AHLT P315	.1 cr.
Physical Therapy Management of Peripheral Nervous and Muscular Disorders AHLT P316	.1 cr.
Physical Therapy Management of Peripheral Vascular Disorders AHLT P317	.2 cr.
Physical Therapy Management of Neck and Trunk Problems AHLT P318	.2 cr.
Clinical Analysis of Gait AHLT P319	.1 cr.
Physical Therapy Management of Sports Injuries AHLT P320	.1 cr.
<b>Total</b>	<b>.22 cr.</b>

*Summer Session*

Clinical Education I AHLT P491	.2 cr.
<b>Total</b>	<b>.2 cr.</b>



**Senior (Professional Program)***Semester I*

Medical Care III AHLT W472 .....2 cr.

Psychopathology PSY N303.....2 cr.

**Physical Therapy Modules**

Physical Therapy Management of

Cardiopulmonary Problems

AHLT P421 .....2 cr.

Physical Therapy Management of

Spinal Cord Injuries AHLT P422 ....2 cr.

Physical Therapy Management of the

Multihandicapped Patient

AHLT P423 .....2 cr.

Applied Physical Therapy

AHLT P485 .....2 cr.

Applied Neurophysiology

AHLT P483 .....4 cr.

**Total .....16 cr.***Semester II*

Clinical Education II AHLT P492 .....8 cr.

Physical Therapy Senior Projects

AHLT P490 .....4 cr.

**Total .....12 cr.**

**For further information contact Professor Rebecca Porter, Program Director, Physical Therapy Program.**

## Radiologic Sciences

**Medical Director:** *Distinguished Professor Klatte*

**Educational Coordinator:** *Assistant Professor Hernandez*

**Coordinator, Baccalaureate Programs:** *Assistant Professor Kehrein*

*Professor Wellman; Associate Professor Holden; Assistant Professors Appledorn, Baker, Kosegi; Instructors Oakes, Whitson; Teaching Associate Hoover*

The Radiologic Science programs are aimed at the preparation of qualified technologists. As a health-related profession, radiologic science is dedicated to the health and welfare of the patient through the diagnosis and treatment of disease.

Radiologic Sciences 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.

The faculty believes that educational opportunities should be provided not only in the preparation of technologists for entry level positions, but also for the technologist who wishes to gain additional expertise. Toward this aim, two undergraduate levels of study are offered. The curriculum for the Associate of Science degree is designed to meet the guidelines of the Joint Review Committee on Education in Radiologic Technology and to provide a foundation in liberal arts for personal growth. Baccalaureate programs with majors in clinical specialty and nuclear medicine provide several opportunities for experienced technologists to expand their abilities. Educational objectives are developed to provide an atmosphere which combines didactic instruction in the technical aspects of these radiologic sciences with appropriate clinical education so that the student's ability to assume responsibility for patient care is increased.

Graduates of Radiologic Science Programs are expected to respond to the needs of their patients with technical competency, compassion, and an ethical manner. They are aware of the need to update their knowledge and skills through active participation in professional societies and continuing education activities.

The Radiologic Sciences Programs are offered at the Medical Center campus, which consists of modern educational and clinical facilities. The program offices are located in the Clinical Building, Room 197J. Students obtain clinical experience in the Radiology Departments located in University, Riley, Wishard and Veterans Administration hospitals, and Regenstrief Health Center. All of these clinical facilities are located on the Indiana University Medical Center campus at Indianapolis.

Applicants for the Radiologic Science Programs should have an interest and ability in the life, physical and behavioral sciences, and should possess a desire to contribute to the health care of all people. Students are chosen on the basis of academic ability and their interest in the profession.

**Awards** The program will recommend to the University graduating students with superior academic performance for degrees awarded with distinction. Also, students with outstanding academic and clinical achievement during their professional program may be recognized by the program at the time of graduation.

### **Associate Degree Program—Radiologic Technology**

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 radiologic principles, technological procedures, clinical application of theory, and general education are included in the curriculum.

The graduate radiologic technologist (radiographer) is a skilled person qualified to provide patient services using ionizing radiation in the form of x rays. Effective radiographers utilize principles of radiation protection as they determine exposure factors and position patients for a variety of examinations. They also are capable of assessing the technical quality of the image and of providing basic patient care. The technologist must function as a member of the health care team.

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.(R).

The associate degree program in Radiologic Technology is fully approved by the committee on Allied Health Education and Accreditation.

**Admission** Graduates of approved high schools or 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 basic criteria for direct consideration from high school is as follows:*

1. Scholastic Aptitude Test Scores—Minimum: 400 Verbal 400 Math OR High School Rank in Upper 50%.
2. Minimum Cumulative High School Grade Point Average of 2.00 on a 4.00 scale (2.50 recommended).
3. Two semesters of high school algebra, *plus* two semesters of either geometry or advanced algebra with a "C" average, *plus* a math placement score necessary for admission to MATH 111.
4. Two semesters of a biological science *and* two semesters of a physical science with a "C" average.

*Alternate criteria for students who do not meet the above criteria is as follows:*

For #1 above, one 12 credit hour semester in college to include a science or math course with 2.00 or better grade-point average on a scale of 4.00 (2.30 recommended).

For #2 above, minimum cumulative college grade point average of 2.00 based on a 4.00 scale (2.30 recommended).

For #3 above, either a Math Placement Score necessary to be admitted to MATH 111 *or* one 3-5 credit hour course in college algebra with a C or better.

For #4 above, one 4-5 credit hour biological or physical science course with a C or better.

Applicants with college background must have attained a minimum cumulative grade-point-average of 2.0 on a 4.0 scale for all course work by interview.

Applications must be submitted between September 1 and December 31 of the year prior to anticipated entry to the program.

**Curriculum** Courses coded with (G) meet Division General Education Requirements.

**First Year (Professional Program)**

*Summer Session II*

Orientation to Radiologic Technology AHLT R100 .....	2 cr.
Introduction to Clinical Radiography AHLT R103 .....	2 cr.
Medical Terminology AHLT R185 .....	1 cr.
<b>Total</b> .....	<b>5 cr.</b>

*Semester I*

Radiologic Procedures I AHLT R101 .....	4 cr.
Principles of Radiography I AHLT R102 .....	3 cr.
Clinical Experience: Basic I AHLT R181 .....	2 cr.
Algebra MATH 111 .....	3 cr.
Human Biology BIOL N212 (G) .....	2 cr.
Human Biology BIOL N213 (G) .....	1 cr.
<b>Total</b> .....	<b>15 cr.</b>

**Second Year (Professional Program)**

*Summer Session I*

Clin Exp: Orthopedic Radiography AHLT R281 .....	3 cr.
<b>Total</b> .....	<b>3 cr.</b>

*Semester I*

Principles of Radiography III AHLT R222 .....	3 cr.
Pathology AHLT R200 .....	2 cr.
Clin Exp: Abdominal Radiography AHLT R282 .....	3 cr.
Clin Exp: Abdominal Correlation AHLT R282 .....	2 cr.
English Composition ENG W131 (G) .....	3 cr.
Speech Comm C110 or C180 (G) .....	3 cr.
<b>Total</b> .....	<b>16 cr.</b>

*Summer Session I*

Comprehensive Experience AHLT R290 .....	1 cr.
<b>Total</b> .....	<b>1 cr.</b>

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

**Baccalaureate Degree Program—Radiologic Sciences**

The baccalaureate degree program offers two clinical curricular options. The options include Diagnostic Clinical Specialty in Radiologic Technology and Nuclear Medicine Technology.

*Semester II*

Radiographic Procedures II AHLT R201 .....	3 cr.
Principles of Radiography I AHLT R202 .....	3 cr.
Clinical Experience: Basic II AHLT R182 .....	3 cr.
Human Biology N214 .....	2 cr.
Human Biology N215 .....	1 cr.
Physics Applied to Radiology AHLT R250 .....	3 cr.
<b>Total</b> .....	<b>15 cr.</b>

*Summer Session II*

Clin Exp: Orthopedic Correlation AHLT R281 .....	2 cr.
<b>Total</b> .....	<b>2 cr.</b>

*Semester II*

Radiation Biology and Protection in Diagnostic Radiology AHLT R260 .....	1 cr.
Radiographic Procedures III AHLT R205 .....	3 cr.
Clin Exp: Ped/Special Radiography AHLT R283 .....	3 cr.
Clin Exp: Ped/Special Correlation AHLT R283 .....	1 cr.
Topics: Experiments in Radiography AHLT R408 .....	1 cr.
Social/Behavioral Science Elective .....	3 cr.
<b>Total</b> .....	<b>12 cr.</b>

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.

### **OPTION I: DIAGNOSTIC CLINICAL SPECIALTY**

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

The graduate diagnostic clinical specialist in radiologic technology is a skilled person qualified to provide patient services using ionizing radiation in the form of x rays for vascular and neurological procedures and computed axial tomography, and ultrasound waves for ultrasonography. Effective specialty radiographers utilize principles of radiation protection as they determine exposure factors and position patients for a variety of examinations. They are also capable of assisting in the surgical procedures performed during the examination, assessing the technical quality of the image, and providing basic patient care. The technologist must function as a member of the health care team.

**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 to the Diagnostic Specialty program must be able to complete a minimum total of 90 semester hours including the prerequisites listed below and electives prior to the beginning of the program. Students must have attained a cumulative grade-point average of 2.3 or above on a 4.0 scale by interview. Applications must be submitted between September 1 and December 31 of the year prior to expected entry to the program.

**Curriculum** Students should consult their academic counselors for appropriate courses and semester sequence in order to complete prerequisites in a timely manner. The code (G) indicates a course which meets the Division's General Education Requirements.

#### **Prerequisites**

##### *General Education*

Verbal Communication (G) (2-3 cr.)  
 Written Communication (G) (2-3 cr.)  
 Humanities Elective (G) (3 cr.)  
 Social/Behavioral Science Elective (G) (3 cr.)  
 Introductory Psychology (G) (3 cr.)  
 College Algebra and Trigonometry (G) (3-5 cr.)  
 General Physics (with lab) (G) (4-5 cr.)  
 Elementary Chemistry (with lab) (G) (4-5 cr.)  
 Human Anatomy (with lab) (4-5 cr.)  
 Human Physiology (with lab) (4-5 cr.)

Applicants must attain at least a grade of C (2.0) in each life and physical science course and must have a minimum cumulative grade-point average of 2.3 for all life and physical sciences courses by interview.

##### *Technical Specialty (48 cr.)*

This area is complete for applicants who have 48 semester hours of earned college credit hours in Radiologic Technology.

Students who received their technical training in noncredit awarding programs, and who have full credentials in Radiologic Technology may be awarded credit for their credentials and experience and/or may petition to test out of technical specialty courses.

Students must select additional courses in Radiologic Sciences with permission of instructor or in areas which support, complement, or extend their technical preparation if they lack 48 semester hours of earned college credit in Radiologic Technology.

Applicants must have a minimum cumulative grade-point average of 2.5 for all Radiologic Technology courses by interview.

*Electives (to bring total credits up to 90)*

The amount of elective hours will differ for each student to complete a total of 90 semester hours of prerequisite course work. Additional electives may also be required, before or during the professional program, to complete a minimum of 122 credit hours of academic work for graduation.

Students who have not fulfilled the above requirements may be admitted to University Division depending on the number of earned credits. When the students satisfactorily fulfill these requirements, they may apply for admission to the Radiologic Technology baccalaureate program.

**Senior (Professional Program)**

*Summer Session II*

Effective June 1984, this program will begin Summer Session II. Course work is underdevelopment at the time of printing. Contact program director for updated information.

*Semester I*

Medical Care I AHLT W374.....	.3 cr.
Seminar in Radiologic Technology AHLT R407 .....	.3 cr.
Diagnostic Imaging Applications I AHLT R405 .....	.3 cr.
Advanced Clinical Practicum I AHLT R401 .....	.5 cr.
<b>Total .....</b>	<b>.14 cr.</b>

*Semester II*

Medical Care II AHLT W471 .....	.3 cr.
Research in Radiologic Technology AHLT R409 .....	.3 cr.
Diagnostic Imaging Applications II AHLT R406 .....	.3 cr.
Advanced Clinical Practicum II AHLT R402 .....	.5 cr.
<b>Total .....</b>	<b>.14 cr.</b>

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

**OPTION II: 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.

The graduate nuclear medicine technologist is a skilled person qualified to provide patient diagnostic and therapeutic services using ionizing radiation in the form of gamma rays, x-rays, and beta rays. These radiations emanate from radioactive materials. Nuclear medicine technologists perform patient organ imaging procedures, radioactive analysis of biological specimens (blood, urine), and some therapeutic applications of radioactive materials. Effective nuclear medicine technologists utilize principles of radiation protection as they prepare and administer radioactive materials for a variety of examinations. They are capable of performing quality control procedures on the instrumentation and on the radioactive materials. Nuclear medicine technologists also assist the physicians in surgical procedures during examinations, give intravenous injections, draw blood, assess the technical quality of the studies, and provide basic patient care. The technologist must function as a member of the health care team.

The bachelor's degree option in Nuclear Medicine Technology is approved as an educational program by the Committee on Allied Health Education and Accreditation.

**Admission Requirements** Admission to the program is based on the applicant's previous academic record and a personal interview.

Students eligible for admission to Nuclear Medicine Technology must be able to complete a minimum total of 88 semester hours including the prerequisites listed below and electives prior to the beginning of the program. Students must have attained a cumulative grade-point average of 2.3 or above on a 4.0 scale by interview.

Applications must be submitted between September 1 and December 31 of the year prior to anticipated entry to the program.

**Curriculum** Students should consult their academic counselors for appropriate courses and semester sequence in order to complete prerequisites in a timely manner. The code (G) indicates a course which meets the Division's General Education Requirements.

**Prerequisites***Humanities (9 cr.)*

Verbal Communication (G) (2-3 cr.)

Written Communication (G) (2-3 cr.)

Humanities Elective (G) (3-5 cr.)

*Social and Behavioral Sciences (9 cr.)*

Introductory Psychology (G) (3 cr.)

Social and Behavioral Sciences Elective (6 cr.)

*Life and Physical Sciences (40 cr.)*

Elementary Chemistry I (with lab) (G) (4-5 cr.)

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

Physics (with lab) (one or two courses, depending on course content) (4-8 cr.)

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

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

College Algebra and Trigonometry and/or Calculus (G) (5-6 cr.)  
(one or two courses depending on course content)

Life and Physical Sciences Electives—To complete the total 40 semester hours; elective areas include: Selected Allied Health, Anatomy, Biology, Chemistry, Genetics, Mathematics, Microbiology, Nursing, Pathology, Pharmacology, Physiology, and Physics. Computer Science and/or Statistics are highly recommended.

Applicants must attain at least a grade of C (2.0) in all required courses and must attain a cumulative grade-point average 2.5 or above for all life and physical sciences courses by time of the interview.

*Electives (30 cr.)* 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.

**Senior (Professional Program)**

The 35 credits listed below are obtained within a 12-month period and fulfill eligibility requirements for the registry examination in Nuclear Medicine Technology.

*Summer Session II*

Patient Care in Radiologic Science

AHLT R100 .....2 cr.

*Semester I*Physics and Instrumentation  
of Nuclear Medicine I

AHLT R412 .....2 cr.

In Vivo and In Vitro Studies

AHLT R430 .....2 cr.

Clinical Application of

Radionuclides AHLT R432.....4 cr.

Radiation Protection in Nuclear

Medicine AHLT R437 .....1 cr.

Clinical Nuclear Medicine

Practicum I AHLT R445 .....4 cr.

**Total** .....13 cr.*Semester II*Physics and Instrumentation  
of Nuclear Medicine II

AHLT R417 .....2 cr.

Radionuclide Measurements

AHLT R422 .....2 cr.

Radiopharmaceuticals AHLT R427.....2 cr.

Clinical Nuclear Medicine

Practicum II AHLT R446.....6 cr.

**Total** .....12 cr.*Summer Session I*

Radiobiology in Nuclear

Medicine AHLT R440 .....1 cr.

Clinical Nuclear Medicine

Practicum III AHLT R447.....3 cr.

**Total** .....4 cr.*Summer Session II*

Clinical Nuclear Medicine

Practicum III AHLT R447.....2 cr.

Health Organization &amp; Management

AHLT X300 .....2 cr.

**Total** .....4 cr.

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

# Respiratory Therapy

**Program Director:** *Associate Professor Koss*

**Associate Degree Coordinator:** *Assistant Professor Gruver*

**Clinical Coordinator:**

**Medical Director:** *Professor LoSasso*

*Associate Professors Eigen, Gibbs, Lemons, Schreiner; Assistant Professors Moorthy, Sprinkle, Sullivan; Instructors Bailey, Freeman, Lee, McAlister, Miller, Murphy; Lecturers Carson, Christoph, Feist, Garrett, Kisling, Krejci, Russell, Schlachet*

Respiratory therapists are instrumental in the diagnosis, treatment, management and preventive care of patients with heart and lung problems. These patients may be found in the newborn nursery, surgical and medical units, emergency room, outpatient departments and intensive care units of hospitals and may be suffering from a variety of acute and chronic conditions that are either life threatening or disabling. The respiratory therapist is involved in the treatment of cardiac and pulmonary edema, emphysema, cerebral thrombosis, hemorrhage, shock, and many other abnormalities that result in deficiencies of the respiratory and cardiac systems of the body. In essence, the respiratory therapist is a life support specialist.

Two undergraduate levels of study are offered. The curriculum for the Associate of Science degree in Respiratory Therapy is designed to meet the guidelines of the Joint Review Committee for Respiratory Therapy Education and provide the knowledge and skills of the entry level practitioner. The baccalaureate program in Respiratory Therapy provides advanced knowledge and skills in clinical specialties and provides opportunities for the therapists to expand their abilities.

The faculty believes they are responsible for providing the educational components, organization, and flexibility for meeting the program objectives; creating an environment most conducive to motivating the student toward self-expression, self-discipline and self-direction; and preparing the graduate to appropriately administer all phases of respiratory therapy. 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.

The Respiratory Therapy program offices and laboratory are located in Coleman Hall.

**Awards** Based upon superior academic performance, the program will recommend students for degrees awarded with distinction.

## Associate Degree Program

The graduates of the Respiratory 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.

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

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 by December 31.

All prerequisite courses should be completed with a C – or higher prior to entry into the professional program in June (summer session II). The applicant must have a 2.0 grade-point average on a 4.0 scale at the time of interview. The applicant must also obtain satisfactory scores on the admissions interview and comply with the Division and Program technical standards.

High school students who anticipate entering college in the Fall Semester 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.

**Curriculum** The following courses with an asterisk (\*) are prerequisite courses which are required for admission into the program. The other first-year courses (Microbiology and English) must be completed prior to graduation. However, to complete the program within the time sequence identified in the curriculum, students are advised to complete them prior to the start of the professional program (second year).

Students should consult their academic counselors for appropriate courses and semester sequence in order to complete prerequisites. The code (G) indicates a course which meets the Division's General Education Requirements.

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

\*Anatomy N261 or A215 (5 cr.)

\*Physics P100 or P101 (4-5 cr.)

\*Physiology N217 or P215 (5 cr.)

\*Chemistry C101 (5 cr.) or C01 and C121 (2-2 cr.)

\*Algebra and/or Trigonometry M111 or higher level math course (3-5 cr.) (G)

\*Medical Terminology AHLT R185 (1 cr.)

Microbiology J200, N251 or M200 (3 cr.)

English Composition W131 or W231 (3 cr.) (G)

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

##### *Summer Session II*

##### **Foundations of Respiratory Therapy**

F206 .....2 cr.

##### **Principles of Gas Therapy**

Administration AHLT F265 .....3 cr.

##### **Cardiopulmonary Physiology**

AHLT F242 .....2 cr.

**Total .....7 cr.**

##### *Semester I*

Pharmacology, AHLT F200 .....2 cr.

##### **Respiratory Therapy Treatment**

Modalities AHLT F243 .....3 cr.

##### **Resuscitation and Airway**

Management AHLT F271 .....1 cr.

##### **Diagnostic Testing & Monitoring**

AHLT F253 .....2 cr.

##### **Respiratory Therapy Clinical**

Education I, AHLT F212 .....4 cr.

Public Speaking (G) .....3 cr.

**Total .....15 cr.**

##### *Semester II*

Principles of Ventilators AHLT F273 .....4 cr.

##### **Cardiopulmonary Pathophysiology**

AHLT F272 .....3 cr.

##### **Respiratory Therapy Supervisory**

Skills AHLT F259 .....1 cr.

##### **Respiratory Therapy Clinical**

Education II AHLT F213 .....4 cr.

**Total .....12 cr.**

##### *Summer Session I*

##### **Respiratory Therapy Clinical**

Education III AHLT F258 .....3 cr.

**For further information, contact Professor Gary Gruver, Respiratory Therapy Associate Degree Program.**



## Baccalaureate Degree Program

The baccalaureate degree in Respiratory Therapy provides graduates with knowledge and clinical experience in the discipline beyond the associate degree level.

Students *must apply to and complete* the associate degree program prior to continuing with the bachelor's curriculum.

The objective of the program is to provide an in-depth understanding and proficiency in advanced clinical care and the fundamentals of allied health education, management, and research.

**Admission Requirements** Students possessing an Associate of Science degree in Respiratory Therapy earned at any accredited college or university and having a grade-point average of 2.0 or greater can be admitted directly into the junior year of the bachelor program. Individuals who are registered respiratory therapists by the National Board for Respiratory Care but do not possess an associate degree in respiratory therapy may apply for advanced standing.

The program may be attended either on a part-time or full-time basis.

**Curriculum** The curriculum consists of a minimum of 122 credit hours. Credits earned within the associate degree are applicable toward the 122 credit hours.

Students should consult their academic counselor for appropriate courses and semester sequence in order to complete courses in a timely manner. Prior to graduation, the Division's General Education Requirements must be completed. These courses may be acquired either after admission to the baccalaureate program or in conjunction with the individual's associate degree courses.

### General Education

Written Communication (1 course)

Verbal Communication (1 course)

Humanities (1 course)

Mathematics (1 course)

Social-Behavioral Sciences (2 courses)

Life-Physical Sciences (2 courses)

#### Group A

Completion of *all* courses in group A. A grade of C or better must be earned in all courses. Student must acquire a minimum of fourteen (14) credits from group A.

Advanced Emergency Care of Cardiopulmonary Disorders, AHLT F460 (3 cr.)

Cardiopulmonary Management of the Neonate, AHLT F450 (3 cr.)

Medical Care I, AHLT W374 (3 cr.)

Medical Care II, AHLT W471 (3 cr.)

Physiologic Aspects of Respiratory Care, AHLT F400 (2 cr.)

#### Group B

Completion of *at least two* courses from Group B. A grade of C or better must be earned in all courses attempted. Student must acquire a minimum of five (5) credits from Group B.

Advanced Neonatal Clinical Experience, AHLT F455 (2 cr.)

Readings in Respiratory Therapy, AHLT F300 (1-5 cr.)

Seminars in Respiratory Therapy, AHLT F310 (1-5 cr.)

Independent Study in Respiratory Therapy, AHLT F410 (1-5 cr.)

#### Group C

Completion of *all* courses in Group C. Student must acquire a minimum of twelve (12) credits in Group C.

Elementary Chemistry II, CHEM C102 (3-5 cr.)

Methods of Teaching Health Occupations Education, EDUC M477 (3 cr.)

Health Organization and Management, AHLT X300 (2 cr.)

Respiratory Therapy Departmental Organization and Management AHLT F370 (1 cr.)

Statistics or equivalent (PSY B305, SOC R359, etc.) or CPT 115 and 140 Introduction to Data Processing (4 cr.)

Respiratory Therapy Supervisory Skills (1-3 cr.) Development of principles of managing people. Focused on providing the respiratory therapy supervisor with the knowledge to effectively perform the functions of staffing, motivating, directing, performance appraisal, discipline, and communication.

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

# Indiana University Northwest

## Division Office

**Director, Division of Allied Health Sciences**, Edward R. Pierce, Ph.D., M.P.H., *Associate Dean, School of Medicine*, (317) 264-4702

**Assistant Director and Northwest Campus Division Chairperson**, William G. Hinkle, Ph.D., (219) 980-6542.

The Division of Allied Health Sciences is currently offering associate degree programs in the following disciplines: Medical Laboratory Technology, 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 throughout north-west Indiana for clinical training and the campus resources of Indiana University Northwest.

Complete information on Division programs at IUN may be obtained by contacting:

William G. Hinkle, Ph.D., Chairperson

Division of Allied Health Sciences

Indiana University Northwest

3400 Broadway

Gary, Indiana 46408

Telephone (219) 980-6542

## Admission Policies

Students must adhere to the Division of Allied Health Sciences' Admission Policies as described elsewhere in this *Bulletin*.

## Admission Procedure

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

1. Application and admission to Indiana University, must be completed first.
2. After being admitted to Indiana University, a Northwest Division of Allied Health Sciences application may be secured from the Office of Admissions or the Allied Health Division.

All Allied Health applications must be received no later than March 15 of the year the student hopes to begin work in an allied health program.

The correct address for applications is: 3400 Broadway, Gary, Indiana 46408.

Admission to Indiana University Northwest and/or the Division of Allied Health Sciences does not constitute automatic admission to a Division 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 as necessary prior to final selection.

## General Degree, Education, and Academic Requirements

Students must meet the Division of Allied Health Sciences' General Requirements for Degrees, General Education Requirements, Academic Regulations, and Student Rights and Responsibilities as expressed in other sections of this *Bulletin*. Students should read these sections as well as the one concerning Academic Standing. Students must also comply with Indiana University Northwest policies and procedures.

**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, approved by the Committee on Allied Health Education and Accreditation or function as such by virtue of accreditation application in progress.

**Cost** The instructional costs of the associate degree programs are based on credit hours and are paid on a semester basis. Other program costs include books and uniforms. Students are responsible for transportation costs and living expenses.

**Honors Program** Programs will recommend to the University students with superior academic performance for degrees awarded with distinction. Students should read the Honors program section of this Bulletin for specific details.

Program-specific honors may also be awarded, and students should refer to the following program descriptions for criteria.

**Withdrawal from Courses** Students may withdraw from any course during the first nine weeks of the semester (fourth week of a six-week summer session and fifth week of an eight-week summer session) and will automatically receive a grade of W. After the ninth week, the grade shall be W or F as determined by the instructor.

At any time during the semester, students may secure a schedule adjustment form from the Registrar's Office. A completed form must be submitted to the Bursar's Office within seven days from the date of issuance in order for the change to be valid. The effective date of the form for grading and refund purposes will be the date of receipt in the Bursar's Office. Withdrawals during the automatic W period require the signatures of the student and the academic adviser. In addition, after the automatic withdrawal period, the signatures of the instructor and student's divisional chairperson are required.

Students who alter their original class schedule, whether by personal incentive or by University directive, must do so officially by the procedure outlined above. Students who do not assume this responsibility are jeopardizing their records by the possibility of incurring an F in a course not properly dropped and/or not receiving credit in a course improperly added.

**Transfer Programs** The Division of Allied Health Sciences at Indiana University Northwest is part of the School of Medicine's system-wide Division. In addition to the Allied Health programs offered at IUN, other Allied Health programs are available through the Division of Allied Health Sciences in Indianapolis. The curricula of these programs require from one to three years of prerequisite courses followed by professional studies. Students having an interest in allied health programs at the Medical Center, Indianapolis, may choose to fulfill the prerequisite course requirements on the Northwest campus prior to applying for the professional portion of the program in Indianapolis. Students should seek academic counseling for specific program planning from the Division of Allied Health Sciences Program Office, 3400 Broadway, Gary, Indiana 46408.

Allied health programs offered at the Medical Center, Indianapolis, for which certain prerequisites can be met at Indiana University Northwest are:

Health Services Management Program  
Cytotechnology Program  
Medical Record Administration Program  
Medical Technology Program  
Occupational Therapy Program  
Physical Therapy Program  
Radiologic Sciences (B.S.) Program  
Respiratory Therapy (B.S.) Program

**Non-University Hospital-Accredited Professional Year Programs in Medical Technology.** The Division of Allied Health Sciences maintains an affiliation agreement with a small number of professionally accredited schools of Medical Technology outside the Indianapolis area to assist qualified pre-allied health students unable to gain admission into or attend the Division's Medical Technology program professional year of clinical education at the Medical Center in Indianapolis. **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 the period of this clinical training.** Through an agreement with each hospital, students will be charged a fee of no less than the current University tuition rate for 32 semester hours. Upon completion of the clinical year, the hospital school in which the

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 credits (\$5.00 per credit hour), the Division of Allied Health Sciences, School of Medicine, will authorize 32 hours of special credit towards an Indiana University degree.

A list of the hospital-accredited programs with which the Division affiliates can be obtained from the Division office in Indianapolis or Gary, and from any University Division counselor in the Indiana University system.

## Indiana University Northwest—General Information

Indiana University Northwest is the result of the growth and change that began in 1922 when the University offered its first formal classes in Lake County as part of a program sponsored by the Gary Public School System. Under various names and in various locations, Indiana University has been serving the needs for higher education in northwest Indiana. Recognizing the increasing demands for higher education throughout the state, Indiana University in 1963 reorganized its various "extension" centers into regional campuses, and the Gary Center and the Calumet Center became the Northwest Campus of Indiana University. Soon after this reorganization the first degree programs were authorized, and the Northwest Campus became a four-year college. The first commencement was held at the Northwest Campus in June of 1967. In 1968, the IU Board of Trustees changed the name of the Northwest Campus to Indiana University Northwest.

The campus of Indiana University Northwest in Gary is situated adjacent to 240 wooded acres of park land, much of which as currently developed includes municipal playing fields, baseball diamonds, and golf courses. The city of Gary has given 32.8 acres of this park property to Indiana University for the campus. The Gleason Park site is bounded on the north by an interstate expressway (I 80-94), on the east by a major north-south artery (Broadway—Ind. 53), and on the south and west by residential housing. The northeast and northwest corners of the 240-acre tract lie adjacent to expressway cloverleaf exchanges east and west.

Six of the several buildings utilized by IUN are located on the 27-acre main campus site. The buildings referred to are: the original classroom/office building occupied in 1959, sometimes referred to as Gary Main; a second classroom/office building and a student union building which were put into operation in 1969; a four-story classroom/office building which was occupied in 1976, and which includes a Computer Center, which is linked to the computer facilities in Bloomington and Indianapolis, a Library/Conference Center completed in the spring of 1980; and the Northwest Center for Medical Education, which was fashioned from two transitional buildings formerly known as Gary East and West. The Center is also the site of the Medical Resource Center. Adjacent to the main campus are two buildings that house the Dental Auxiliary Education Program of the IU School of Dentistry and the IUN Fine Arts Program. Also adjacent to the campus are the Administration Building and a building for divisional, departmental, and faculty offices. Other structures include a former residence now housing central duplicating services, greenhouse, and physical plant facilities. The master plan for the physical development of the campus calls for expansion of the campus, the construction of other buildings and the acquisition of other properties.

### Student Activities

Student life at the University goes beyond the classroom. There are lounges and recreational facilities for casual and informal socializing. Student government and student publications provide a more structured opportunity for direct participation in University governance and the promotion of student interests. Student generated organizations cover a broad spectrum. All appeal to particular interests or attitudes such as intramural athletics, ethnic and cultural groups, fraternities, sororities, social action or political alliances, professional and academic societies. The Student Affairs staff offers aid to all students requesting assistance in any area of activity.

### Student Services

Student Services consists of an array of people, programs, and services designed to meet the procedural and effective needs of students. In addition to providing direct service to students, the student services division assumes an advocacy role, i.e. articulating student needs to the faculty and administration. Moreover, the staff is supportive of faculty and the academic mission of the University.

The Associate Dean for Academic Affairs provides administrative leadership for the Student Services area and is the person to whom students and others should address questions or concerns relative to student life/development. The following offices or departments constitute Student Services: Admissions, Financial Aids, the Guided Study Program, the Special Services Project, Student Affairs, Psychological Services, and University Division. Other functions include student discipline, recreation and intramurals.

## Financial Aids

In addition to developing local assistance programs, the Northwest Campus participates in a wide variety of federal and state sponsored aid programs. The financial aid program is designed to serve students from the most diverse parts of society. Because scholarship and grant funds are limited, the student's entire need for funds cannot always be met from these sources. Therefore, several types of financial aid may be combined. It is not uncommon for a student, particularly with a large need, to receive assistance in the forms of scholarship, grant, loan, and employment earnings, or some combination of these types. In offering students a particular financial aid package, the University Committee on Scholarships and Financial Aids attempts to arrange the combination of aid in such a manner as will be most beneficial to the student.

High school students and individuals who have not begun their university studies may obtain applications and related materials at their local high school or the Office of Scholarships and Financial Aids, Indiana University Northwest. The completed application must be submitted by February 15 in order to be best considered for financial assistance for the following academic year.

Currently enrolled University students or those who have completed some university-level work, may obtain the necessary forms at the Office of Scholarships and Financial Aids, Indiana University Northwest. The completed application should be submitted by February 15 for the following academic year.

Any student planning to attend the Northwest campus and applying for financial assistance should submit an application directly to the Office of Scholarships and Financial Aids at Indiana University Northwest.

The Indiana University Application for Scholarships and Financial Aids is used for most types of financial assistance; some programs, however, require separate applications. Detailed information on the types of financial assistance available and application procedures may be obtained by contacting the Office of Scholarships and Financial Aids, Indiana University Northwest.

In order to be considered for financial assistance in excess of \$200, a student must submit a Financial Aid Form. These forms are available through the local high schools or the Office of Scholarships and Financial Aids at Indiana University Northwest.

### Scholarships

*University Scholarships* All scholarships are awarded on the basis of the applicant's academic achievement and potential for college success. In cases where financial need exists, the amount of the stipend will be based upon the need of the student for funds as determined by analysis of the Financial Aid Form, other information, and total amount of funds available to the University. Scholarships with stipends of approximately \$200 may be awarded to students even though analysis of all data indicates that the student's parents' resources are sufficient to enable him to attend Indiana University Northwest without financial assistance. Parents of students interested only in scholarships with a stipend of approximately \$200 need not submit a Financial Aid Form.

*Local Scholarships* Scholarship funds, established and provided by individuals, organizations, business, industry, and other private organizations in the area, are available to students attending Indiana University Northwest. These scholarships may be offered in addition to the scholarships awarded by the University.

### Available Aids

*Supplemental Educational Opportunity Grants* All undergraduate students admitted to the University are eligible to be considered for this award on the basis of financial need. The amount of the grant is determined by the student's need for funds. Educational Opportunity Grants must be matched by some other type of financial assistance: a scholarship, grant, loan, or employment earnings. Therefore, it will be necessary for the recipient of an Educational Opportunity Grant if he does not receive other scholarship aid to accept a loan and/or employment.

*Child-of-Disabled-Veteran Award* Students who are children of disabled/deceased veterans of World War I or II, the Korean Conflict, or the Vietnam era who have suffered a service-connected disability or death are eligible for partial remission of fees. Applicants must have resided in the state of Indiana for the last five years. Verification is required.

*Federal Work-Study Program* The Federal government has provided funds to stimulate and promote part-time employment of students in institutions of higher education. To be eligible for this program, the student must be enrolled during the semester in which he wishes to be employed. The student must also verify a need for financial assistance. Under this program, employment is limited to an average of twenty hours per week whenever regular classes are in session.

*National Direct Student Loan* This program was established by the federal government to provide long-term loans at low-interest rates to students enrolled in 6 semester hours or more. An applicant must verify his need for financial assistance and is required to maintain good academic standing. No interest accrues during the time of enrollment. Repayment may be made over a ten-year period at 3 percent interest beginning nine months after the borrower ceases to be enrolled in at least 6 semester hours.

*Short-Term Loan Program* Indiana University provides a short-term loan service to aid students who need temporary assistance in meeting current educational expenses. Information concerning the loan is available at the Office of Scholarships and Financial Aids, Indiana University Northwest, as is information on the Margaret Playe Memorial Emergency short-term loan.

*Guaranteed Loans* Students may apply to their hometown lending institutions (banks, savings and loan associations, credit unions, etc.) for loans up to \$2,500 for an academic year. Repayment begins nine months after the student completes his program. When repayment begins, the student will pay 7 percent interest on the unpaid balance. Financial need may be a criterion. Students may be eligible for an interest subsidy (federal government will pay the interest in the student's behalf) during the time the student is in school.

*Vocational Rehabilitation* A person with a handicap may qualify for financial assistance through the Vocational Rehabilitation Program. Application must be made directly to the Vocational Rehabilitation Division in the student's area. In the Gary area Vocational Rehabilitation Offices are located at 3660 Grant Street, Gary, and 911 Ridge Road, Munster.

*Student Employment* In order to coordinate opportunities for Indiana University Northwest students, the Office of Scholarships and Financial Aids has the responsibility for administering a program of student employment. The student employment program is a service for students who wish to work (both part time and full time) during the year (both on and off campus) in order to help meet college expenses. At the same time, of course, employed students help to fulfill the manpower needs of agencies, offices, and businesses using the services of the student employment program.

The Office of Scholarships and Financial Aids will coordinate student employment by preliminary interviewing of student applicants and then referring them to prospective employers. Also, the Office will maintain a listing of possible employment opportunities both on campus and off. The off-campus listings will include most of northwest Indiana. Whenever possible, a student will be referred to an employer with a job relating to the student's educational objectives.

*Pell Grant* The Pell Grant program is a federal aid program designed to provide financial assistance to those who need it to attend post-high school educational institutions. Grants are intended to be the "floor" of a financial aid package and may be combined with other forms of aid in order to meet the full costs of education. The amount of the grant is determined on the basis of the student's own and the family's financial resources.

In accordance with federal guidelines, students receiving financial aid are monitored to see if they are meeting minimum enrollment requirements as well as making reasonable academic progress toward degree requirements.

The University is aware of its consumer information responsibility and continuously strives to communicate basic information in the most complete and accurate manner possible.



# Academic Programs, IU Northwest

## Medical Laboratory Technology

**Program Director** *Assistant Professor Newell*

A medical laboratory technician is an indispensable member of the health care team. Working under the direct supervision of a pathologist and medical technologist, the technician is capable of performing a large variety of laboratory tests, thereby contributing toward meeting patients' needs.

The Medical Laboratory Technology associate degree program is one which prepares the student for a satisfying career in laboratory medicine. It is designed to provide students with the proper balance of academic background and practical experience necessary to successfully complete the course. Students accepted into the Medical Laboratory Technology Program begin the course of study in the Fall Semester. The curriculum consists of general education courses, technical courses in laboratory technology, and clinical experience in one of a number of hospitals in the Lake county area.

Graduate medical laboratory technicians perform tests in each laboratory department including hematology, chemistry, microbiology, immunohematology and serology. They use manual techniques as well as advanced electronic equipment in performing the various tests. In addition, a Medical Laboratory Technician is adept at collecting blood and helping to assess the laboratory's quality control program. Program graduates are eligible to apply for the national registry examination in laboratory technology.

The Medical Laboratory Technology Program offices and classrooms are located in Hawthorn Hall on the Northwest Campus. Laboratory and clinical training occur in local affiliated hospitals in the Lake county area.

The Indiana University Medical Laboratory Technology Program is accredited by the Committee on Allied Health Education and Accreditation.

**Admission Requirements** Students may apply for admission to the Medical Laboratory Technology Program after qualifying for regular admission to Indiana University.

Admission to the Associate degree program is based upon each applicant's high school and/or college cumulative grade-point average, and results of a personal interview. The applications are due by March 15 of each year at the Division of Allied Health Sciences office.

It is the policy of the Medical Laboratory Technology Program that a minimum grade-point average of 2.0 on a 4.0 scale be required for admission into the program. This policy is implemented by the program admissions committee when the incoming class of students is selected from the applicant pool.

**Awards** The program will recommend students with superior academic performance for degrees awarded with distinction.

### Curriculum (Two-Year Semester Sequence)

Courses coded with (G) meet Division General Education Requirements.

#### First Year (Professional Program)

##### *Semester I*

Human Anatomy and Physiology I  
PHSL P261 (G) .....4 cr.  
Basic Mathematics  
MATH M100 (or M118, M119) .....4 cr.  
Introduction to the Clinical  
Laboratory AHSP C180<sup>1</sup> .....2 cr.  
Elementary Chemistry I (Lecture)  
CHEM C101<sup>1</sup> .....3 cr.

##### *Semester II*

Human Anatomy and Physiology II  
PHSL P262 .....4 cr.  
Elementary Chemistry II (Lecture)  
CHEM C102<sup>1</sup> .....3 cr.  
Elementary Chemistry II (Lab)  
CHEM C122<sup>1</sup> .....2 cr.  
Hematology AHSP C131 .....2 cr.  
Elementary Composition I

<sup>1</sup> Professional core course: A grade of C or higher is required in order to take professional core courses that occur later in the course sequence for this major.

Elementary Chemistry (Lab)	ENG W131 <sup>1</sup> (G).....	3 cr.
CHEM C121 <sup>1</sup> .....	<b>Total</b> .....	14 cr.
Medical Terminology AHLT R185 .....		
<b>Total</b> .....		16 cr.

#### *Summer Session I & II*

Clinical Education I AHSP C181<sup>1</sup> ..... 4 cr.

#### *Summer Session I*

Immunohematology AHSP C140<sup>1</sup> ..... 2 cr.

Clinical Microbiology I AHSP C151<sup>1</sup> ..... 2 cr.

**Total** .....

#### *Summer Session II*

Clinical Chemistry I AHSP C121<sup>1</sup>..... 2 cr.

Body Fluids AHSP C161<sup>1</sup> ..... 2 cr.

Clinical Microbiology II AHSP C152<sup>1</sup>..... 2 cr.

**Total** .....

**Note: Total Summer credit** ..... 14 cr.

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

#### *Semester I*

Clinical Education II AHSP C182<sup>1</sup> ..... 4 cr.

Interpersonal Communications

SPCH S122 (G) ..... 3 cr.

Clinical Chemistry CHEM C213<sup>1</sup> ..... 3 cr.

**Total** .....

#### *Semester II*

Clinical Education III AHSP L281<sup>1</sup> ..... 4 cr.

Advanced Clinical Topics

AHSP L201<sup>1</sup>..... 2 cr.

Introductory Psychology

PSY P101 (G)..... 3 cr.

Clinical Immunoserology

AHSP C141<sup>1</sup>..... 2 cr.

**Total** .....

**For further information, contact Professor Newell, Program Director, Medical Laboratory Technology Program.**

## **Medical Record Technology**

**Program Director:** Assistant Professor Skurka

*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. Medical record technicians are responsible for maintaining medical, scientific, and legal documents regarding a patient's injury or illness.

Students accepted into the Medical Record Technology Program begin the course of study in the Fall Semester. The curriculum consists of general education courses, technical courses in Medical Record Technology, and clinical experience in hospitals in the Lake County area. The Medical Record Technology Program is designed to:

1. Provide educational experiences designed to prepare students for entertaining a career as a medical record technician.
2. Provide concentrated clinical experiences by a rotation schedule through the hospitals in the community.
3. Provide the medical community with individuals qualified to effectively carry out the functions of the medical record discipline.
4. Contribute to the liberal education of the students by providing a core of general education courses.
5. Qualify the students for transfer to a college or university offering a baccalaureate degree in the field.
6. Assist students in reaching their goals by providing academic, occupational, and personal guidance.

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<sup>1</sup> Professional core course: A grade of C or higher is required in order to take professional core courses that occur later in the course sequence for this major.

The graduate medical record technician generally works in the medical record department of a hospital, clinic, or other health care facility. 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 medical transcriptionists; compiling statistics; 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; participation in medical care evaluation studies and utilization review activities, and assisting in quality assurance activities.

The Medical Record Technology Program offices and classrooms are located in Hawthorn Hall on the Northwest Campus. Clinical experience occurs in health care facilities located in Lake and Porter counties of Indiana and Cook County, Illinois.

The curriculum of the Medical Record Technology Program is accredited by the 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.

**Admission Requirements** Students may apply for admission to the Medical Record Technology Program after qualifying for regular admission to Indiana University.

Admission to the program is based upon each applicant's high school and/or college grade-point average, SAT score, and a personal interview. Applications are due by March 15 of the year of anticipated entry to the program at the Division of Allied Health Sciences office.

It is the policy of the Medical Record Technology Program that a minimum grade-point average of 2.0 on a 4.0 scale be required for admission into the program. This policy is implemented by the program admissions committee when the incoming class of students is selected from the applicant pool.

**Awards** The program will recommend students with superior academic performance for degrees awarded with distinction.

**Curriculum (Two-year Semester Sequence)**

Courses coded with (G) meet Division General Education Requirements.

**First Year (Professional Program)***Semester I*

Elementary Composition I ENG W131 (G)*	3 cr.
Human Anatomy and Physiology I PHSL P261 (G)	4 cr.
Anatomy and Physiology Enrichment Lab PHSL P2563 (G)	1 cr.
Medical Terminology AHSP M195*	3 cr.
Introductory Psychology I PSY P101 (G)	3 cr.
<b>Total</b>	<b>14 cr.</b>

*Semester II*

Human Anatomy and Physiology II PHSL P262	4 cr.
Anatomy and Physiology Enrichment Lab PHSL P263	1 cr.
Medical Record Science I AHSP M101*	4 cr.
Principles of Sociology SOC S161	3 cr.
Public Speaking SPCH S121 (G)	3 cr.
Medical Transcription (Lab) AHSP M107*	2 cr.
<b>Total</b>	<b>17 cr.</b>

*Summer Session*

Directed Practice in Medical Record Science I AHSP M104*	4 cr.
<b>Total</b>	<b>4 cr.</b>

**Second Year (Professional Program)***Semester I*

Medical Record Science II AHSP M102*	4 cr.
Directed Practice in Medical Record Science II AHSP M105*	5 cr.
Statistics for Medical Record Science AHSP M120*	2 cr.
Office Organization AHSP M200*	3 cr.
Elective (Suggested Elective: W231 Professional Writing Skills)	
<b>Total</b>	<b>17 cr.</b>

*Semester II*

Medical Record Science III AHSP M103*	4 cr.
Directed Practice in Medical Record Science III AHSP M106*	2 cr.
Legal Aspects of Medical Record Science AHSP M145*	2 cr.
Pathology PATH C477*	3 cr.
Organizational Behavior and Leadership BUS Z301	3 cr.
Introduction to Computers and their Uses CSCI C106	3 cr.
<b>Total</b>	<b>17 cr.</b>

For further information, contact Professor Skurka, Director, Medical Record Technology Program.

## Radiologic Technology Program

**Program Director:** Assistant Professor McKenna

**Clinical Coordinator:** Assistant Professor Ledbetter

*Adjunct Clinical Instructors* Getch, Mosqueda, Plowman, Schmidl, 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 (radiographer) is the technical assistant to the radiologist.

Radiographers are essential members of the health care team. They are experts in the performance of examinations requiring the use of xrays and highly complex machinery to produce a quality x-ray film (radiograph) of the internal parts of the body for interpretation by a medical doctor. Radiographers can find employment possibilities in various medical settings ranging from doctors' offices to large medical centers. In addition, some radiographers seek employment in industry or in the marketing and sales of x-ray products. Radiographers can further specialize in areas such as angiography, ultrasound, computerized tomography, nuclear medicine, radiation therapy, education, and administration. For the most part, these

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\*Professional core course: A grade of C or higher is required in order to take professional core courses that occur later in the course sequence for this major.

specialties require additional coursework. The associate degree may apply for entry to the baccalaureate program in Radiologic Sciences or Health Services Management, which is particularly useful in the areas of education and administration. Graduates are eligible to write the National Examination of the American Registry of Radiologic Technologists.

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

The Radiologic Technology curriculum objectives are designed to:

1. Provide educational experiences designed to prepare students for entering a career as radiographers.
2. Provide concentrated clinical experiences by a rotation schedule through the hospitals in the community.
3. Provide the medical community with individuals qualified to perform radiographic procedures.
4. Contribute to the liberal education of the students by providing a score of general education courses.
5. Qualify the students for transfer to a college or university offering a baccalaureate degree in the field.
6. Assist students in reaching their goals by providing academic, occupational, and personal guidance.
7. *Instill in students a life long desire to achieve professional and academic excellence.*

The Radiologic Technology Program offices and classrooms are located in Hawthorn Hall on the Northwest campus. Clinical experiences occur in local hospitals, including St. Margaret Hospital in Hammond, St. Catherine Hospital in East Chicago, and Methodist Hospital of Gary, Inc. in Gary and Merrillville.

The Radiologic Technology Program is accredited by the Committee on Allied Health Education and Accreditation in collaboration with the Joint Review Committee on Education in Radiologic Technology.

**Admission Requirements** Students may apply for admission to the Radiologic Technology Program after qualifying for regular admission to Indiana University.

Admission to the program is based upon each applicant's high school and/or college course work, SAT score, and a personal interview. To be eligible for admission, applicants should have completed high school courses in algebra (one year), geometry (one year), biology (one year), and English (four years). In addition, physics, chemistry, typing, and a second year of algebra are recommended. Applications are due by March 15 of the year of anticipated entry to the program.

It is the policy of the Radiologic Technology Program that a minimum grade-point average of 2.0 on a 4.0 scale be required for admission into the program. This policy is implemented by the program admissions committee when the incoming class of students is selected from the applicant pool.

**Awards** The program will recommend students with superior academic performance for degrees awarded with honors. The graduating student with the highest grade-point average is awarded the "Outstanding Student Award" plaque donated by E.R. Squibb and Sons. Three graduating students with the highest clinical performance (one per affiliate) are awarded the "Outstanding Clinical Performance" silver tray donated by the Mallinckrodt Company.

### **Curriculum (Two-Year Semester Sequence)**

Courses coded with (G) meet Division General Education Requirements.

**First Year (Professional Program)***Summer Session II*

Basic Mathematics MATH M100.....4 cr.

**Total** .....4 cr.*Semester I*Orientation to Radiologic  
Technology AHLT R100<sup>1</sup> .....2 cr.Radiographic Procedures I  
AHLT R101<sup>1</sup> .....3 cr.Principles of Radiography I  
AHLT R102<sup>1</sup> .....3 cr.Clinical Experience I  
AHLT R181<sup>1</sup> .....2 cr.Human Anatomy and Physiology I  
PHSL P261 (G) .....4 cr.Medical Terminology  
AHLT R185<sup>1</sup> .....1 cr.**Total** .....15 cr.*Summer Sessions*

## Clinical Experience II

AHLT R281<sup>1</sup> .....4 cr.**Total** .....4 cr.**Second Year (Professional Program)***Semester I*Radiographic Procedures III  
AHLT R205<sup>1</sup> .....3 cr.Principles of Radiography III  
AHLT R222<sup>1</sup> .....3 cr.Physics Applied to Radiography  
AHLT R250<sup>1</sup> .....3 cr.Clinical Experience IV  
AHLT R282<sup>1</sup> .....3 cr.English Composition  
ENG W131(G)<sup>1</sup> .....3 cr.**Total** .....15 cr.*Summer Sessions*

## Comprehensive Experience

AHLT R290<sup>1</sup> .....4 cr.**Total** .....4 cr.**For further information, contact Professor McKenna, Director, Radiologic Technology Program.**

## Respiratory Therapy

**Program Director:** Associate Professor Neff*Adjunct Clinical Instructors* Banham, Erickson, and Harris

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.

A minimum of two years is required to complete work for the associate degree in Respiratory Therapy. Students considering part-time enrollment may elect to complete the courses of the preprofessional first year on a part-time basis. The professional year of the program requires a

*Semester II*Radiographic Procedures II  
AHLT R201<sup>1</sup> .....3 cr.Principles of Radiography II  
AHLT R202<sup>1</sup> .....3 cr.Clinical Experience II  
AHLT R182<sup>1</sup> .....3 cr.Human Anatomy and Physiology II  
PHSL P262 .....4 cr.**Total** .....13 cr.*Semester II*Radiobiology and Protection  
AHLT R260 .....2 cr.

Pathology PATH C477 .....3 cr.

Clinical Experience V  
AHLT R283 .....3 cr.Introductory Psychology  
PSY P101 (G) .....3 cr.Communication Requirement  
SPCH S121 or S122 (G) .....3 cr.**Total** .....14 cr.

<sup>1</sup> Professional core course: A grade of C or higher is required in order to take professional core courses that occur later in the course sequence for this major.

full-time commitment of twelve consecutive months. The program curriculum is designed to teach the therapeutic use of medical gases, air and oxygen-administering apparatus, environmental control systems, humidification and aerosols, drugs and medications, ventilatory assistance and ventilatory control, postural drainage, chest physiotherapy and breathing exercise, respiratory rehabilitation, assist with cardiopulmonary resuscitation, and maintenance of natural, artificial, and mechanical airways.

Graduate respiratory therapists will be responsible for emergency airway care; preparation and administration of aerosolized medications; bronchopulmonary drainage and pulmonary rehabilitation; blood gas analysis; critical care ventilatory management; and pulmonary function testing. Graduates will be eligible to take the entry level and registry examinations offered by the National Board of Respiratory Care.

The Respiratory Therapy Program offices and classroom/laboratory are located in Hawthorn Hall. Clinical experience occurs in four hospitals and various health care facilities in the Northwest area.

The Respiratory Therapy Program is accredited by the Committee on Allied Health Education and Accreditation in collaboration with the Joint Review Committee on Respiratory Therapy Education.

**Admission Requirements** Students may apply for admission to the Respiratory Therapy Program after completion of regular admission to Indiana University and first year preprofessional courses as indicated under Curriculum. Applicants should have completed the following high school courses: chemistry, physics, and two courses in algebra. Admission to the program is based on consideration of each applicant's GPA and math/science GPA. Applications are due prior to March 15 of the year of anticipated entry to the second year (professional year) of the program.

It is the policy of the Respiratory Therapy Program that a minimum grade-point average of 2.0 on a 4.0 scale be required for admission into the program. This policy is implemented by the program admissions committee when the incoming class of students is selected from the applicant pool.

**Awards** The program will recommend students with superior academic performance for degrees awarded with distinction.

**Curriculum** Students should consult with their academic counselors for proper academic courses and semester sequence in order to complete the first-year program prerequisite courses in a timely manner. Courses coded with (G) meet Division General Education Requirements.

#### **First Year (Pre-professional Course Work)**

Elementary Composition ENG W131 (G) (3 cr.)<sup>1</sup>  
 Physics in the Modern World PHYS P101 (4 cr.)<sup>1</sup>  
 Human Anatomy and Physiology I PHSL P261 (G) (4 cr.)<sup>1</sup>  
 Topics for Respiratory Therapy PHSL P263 (1 cr.)<sup>1</sup>  
 Basic Algebra MATH M014 (4 cr.)<sup>1</sup>  
 Human Anatomy and Physiology II PHSL P262 (4 cr.)<sup>1</sup>  
 Topics for Respiratory Therapy PHSL P263 (1 cr.)<sup>1</sup>  
 Elementary Chemistry I CHEM C101 (3 cr.)<sup>1</sup>  
 Elementary Chemistry Lab CHEM C121 (2 cr.)<sup>1</sup>  
 Introductory Microbiology MICR M120 (3 cr.)<sup>1</sup>  
 Introductory Microbiology Lab MICR M121 (1 cr.)<sup>1</sup>  
 Medical Terminology AHLT R185 (1 cr.)

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<sup>1</sup> Professional core course: A grade of C or higher is required in order to take professional core courses that occur later in the course sequence for this major.

**Second Year (Professional Program)***Summer Session I*

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

*Semester I*

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

*Summer Session II*

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

*Semester II*

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

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

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<sup>1</sup> Professional core course: A grade of C or higher is required in order to take professional core courses that occur later in the course sequence for this major.



## Courses Offered, 1983-85

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 C**—Medical Technology  
**AHLT F**—Respiratory Therapy  
**AHLT M**—Medical Record Administration  
**AHLT P**—Physical Therapy  
**AHLT R**—Radiologic Sciences  
**AHLT S**—Occupational Therapy Technology  
**AHLT T**—Occupational Therapy  
**AHLT W**—Interdisciplinary Courses  
**AHLT X**—Health Services Management  
**AHSP L**—Medical Laboratory Technology  
**AHSP M**—Medical Record Technology

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; and "C" refers to course requirements taken concurrently.

### Interdisciplinary Courses

**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.)** Interdisciplinary approach to the study of selected disease processes and conditions in all age groups and a survey of 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.)** Continuation of Medical Care I. Interdisciplinary approach to the study of selected disease processes and conditions in all age groups and a survey of the medical and/or surgical management of these conditions.

**AHLT W472 Medical Care III (2 cr.)** Lectures and clinical presentation in orthopedics and neurology.

### Cytotechnology

**AHLT A403 Hormonal Cytology (2 cr.)** The anatomic, histologic, and physiologic properties of endocrine tissues and their influence on the epithelium of the female genital tract.

**AHLT A412 Gynecologic Cytology, Normal (3 cr.)** Detailed microscopic study of normal squamous endocervical and endometrial epithelial cells; as well as other non-epithelial cells. Cellular changes seen with microbiological infections, repair, inflammation, degeneration, artifact and vitamin deficiency status.

**AHLT A422 Gynecologic Cytology, Abnormal (3 cr.)** Histopathology and cytopathology of lesions of the female genital tract. Detailed studies in the cytologic diagnosis of dysplasia, carcinoma in situ and invasive cancer of this anatomic area. Differential diagnosis of these lesions include the severity, site of origin, and grade where appropriate.

**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.)** Cytology of the eye, central nervous system, synovial membranes and serosal cavities in fluids associated with nonmalignant and malignant disease processes.

**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.

**ALTH A455 Cytology of Fine Needle Aspiration (2 cr.)** The study of nonmalignant and malignant cells aspirated from lung, thyroid, salivary glands, breast, liver, prostate, lymph nodes, soft tissue masses and miscellaneous organs; and the study of fine needle aspiration techniques.

**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 filter techniques and fluorescence microscopy.

**AHLT A465 Certification Internship (6 cr.)** Includes six months of internships 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 (2 cr.)** Review of current literature pertaining to diagnostic cytology. Reports and discussions by students and faculty.

## **Health Services Management**

**AHLT X300 Health Organization and Management (2 cr.)** An overview of health organization and management with emphasis on the hospital organization and departmental management.

**AHLT X400 Health Care Management Communication (3 cr.)** An examination of written and oral communication and languages of words and numbers as they apply to health organizations.

**AHLT X410 Health Care Organization and Management Theory (3 cr.)** An overview of health care organization and management theory; emphasis at departmental level.

**AHLT X420 Hospital Organization and Administration (3 cr.)** An orientation to hospitals; their functions, organization, and management.

**AHLT X430 Financial Management of Health Care Organizations (3 cr.)** An evaluation of quantitative data for health planning, program development, and fiscal management.

**AHLT X440 Health Issues and Problems (3 cr.)** An examination of the role of health care in society; emphasis on trends and issues that effect health organizations and management.

**AHLT X450 Health Care Personnel Management and Decision Making (3 cr.)** An analysis of personnel problems in health organizations; emphasis on principles of decision making.

**AHLT X490 Independent Study in Health Care Management (3-9 cr.)** Supervised reading or research in health organization and management.

## **Medical Laboratory Technology**

The following courses are offered at Indiana University Northwest only.

**AHSP C121 Clinical Chemistry I (2 cr.)** Introduction to clinical chemistry and basic laboratory methods. Basic fundamentals concerning primary constituents, their significance in health and disease, and procedures for their determinations. Emphasis is on general rules for clinical analysis and importance of quality control as it relates to instrumentation. Lab included.

**AHSP C131 Hematology (2 cr.)** Introduction to blood characteristics. Emphasis on the complete blood count and study of abnormal blood cells. Overview of automated methodologies and corresponding quality control procedures. Theory of blood coagulation and related procedures. Lab included.

**AHSP C140 Immunohematology (2 cr.)** Introduction to principles of immunology at the level of antibody formation and reaction. Primarily a discussion of blood grouping, Rh typing, and detection of irregular antibodies in human serum by compatibility testing. Blood group system and blood components are discussed. Lab included.

**AHSP C141 Clinical Immunology (2 cr.)** Introduction to principles of immunology at the level of antibody formation and reaction. Lab focus is on serologic testing used to detect abnormalities present due to antigen-antibody interaction.

**AHSP C151 Clinical Microbiology I (2 cr.)** Topics focus on basic clinical bacteriology and parasitology with inclusion of protozoa, helminths, and arthropods as agents of infection. Lab included.

**AHSP C152 Clinical Microbiology II (2 cr.)** Emphasis is placed on virology, medical mycology, and the pathologic organisms encountered as clinical disease agents. Lab included.

**AHSP C161 Body Fluids (2 cr.)** General renal physiology and urine formation. Emphasis is on the routine urinalysis and its role in the early detection of disease. Fundamentals of kidney function studies, gastric analysis and other body fluids are discussed. Lab includes physical, chemical and microscopic examinations of urine, gastric, and spinal fluids. Lab included.

**AHSP C180 Introduction to the Clinical Laboratory (2 cr.)** A survey of the practical aspects of laboratory testing. Lectures and labs acquaint students with techniques, equipment and instruments common to the medical laboratory. Hospital orientation included. Lab included.

**AHSP C181 Clinical Education I (1-4 cr.)**

Clinical application of laboratory techniques in all phases of laboratory testing. Procedures performed in each department of the medical laboratory under the direct supervision of a registered technologist. Proficiency levels established.

**AHSP C182 Clinical Education II (1-4 cr.) P:**

C181. Clinical application of laboratory techniques in all phases of laboratory testing. Procedures performed in each department of the medical laboratory under the direct supervision of a registered technologist. Proficiency levels established.

**AHSP L201 Advanced Laboratory Techniques I (1-3 cr.) P:**

C122, C152. Themes in physiologic biochemistry concentrate on interpretation of testing profiles and advanced techniques for detection of abnormalities. Themes in microbiology focus on parasites and fungi that invade men. Clinical correlation of lab results with patient illness and disease emphasized.

**AHSP L202 Advanced Clinical Topics (1-3 cr.)**

Themes in clinical chemistry concentrate on advanced techniques for the detection of abnormalities, nuclear medicine, toxicology and profile testing. Topics in RIA. Computer technology, Immunohematology advances, hepatitis update and introduction to research are discussed.

**AHSP L281 Clinical Education III (1-4 cr.) P:**

C182. Clinical application of laboratory techniques in all phases of laboratory testing. Procedures performed in each department of the medical laboratory under the direct supervision of a registered technologist. Proficiency levels established.

**AHSP L282 Clinical Education IV (1-4 cr.) P:**

L281. Clinical application of laboratory techniques in all phases of laboratory testing. Procedures performed in each department of the medical laboratory under the direct supervision of a registered technologist. Proficiency levels established.

**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 M357 Clinical in Medical Record Technology (1 cr.)**

Professionally supervised assignments in the technical aspects of medical record services in an approved clinical site.

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

History, content, form, numbering, filing, securing, preserving, coding, and indexing medical records; computer applications 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 laboratory practice with on-site observations of medical record technical and administrative systems. Application of medical record management procedures in the clinical setting.

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

Seminar in medical record administration topics. Planning and layout of medical record services. Inservice presentations for medical record personnel. Computer applications in medical and administrative systems. Individualized instruction in medical record practice. Clinical project assignments in quality control in hospital medical record departments.

**AHLT M445 Medicine and the Law (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.

**AHLT M459 Clinical in Medical Record**

**Administration (4 cr.)** Professionally supervised internship in an approved clinical site for management experiences in medical record services.

**Medical Record Technology**

The following courses are offered at Indiana University Northwest only.

**AHSP M101 Medical Record Science I (4 cr.)**

(3 lecture hrs.—2 lab hrs.) P: M195; concurrent enrollment in M107. 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.)** P: M101; concurrent enrollment in M120, M200, M105. 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.)** P: M102; concurrent enrollment in M106, M145. Medical staff organization and committee relationships to medical records, release of information, ancillary and nursing home medical records systems, space planning for medical record services in a health-related facility, medical care evaluation, utilization review, PSRO, and quality assurance.

**AHSP M104 Directed Practice in Medical Record Science I (4 cr.)** P: M101. Directed experience in securing, filing, and analyzing the medical record.

**AHSP M105 Directed Practice in Medical Record Science II (5 cr.)** P: M104; concurrent enrollment in M102, M120, M200. 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.)** P: M105; concurrent enrollment in M145, M103. 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.)** P: M105; concurrent enrollment in M101. Practice in transcription of medical reports and correspondence related to the medical record. Emphasis on understanding, speed, and skills in use of transcription and dictation equipment.

**AHSP M120 Statistics for Medical Record Science (2 cr.)** P: M104; concurrent enrollment in M102, M105, M200. 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 M145 Legal Aspects of Medical Record Science (2 cr.)** P: M102, M105, M20, M200; concurrent enrollment in M103, M106. 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 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.

**AHSP M200 Office Organization (3 cr.)** Study of the role of a supervisor in an organization and a survey of supervisory principles, services, and functions; the role of the medical record practitioner as a supervisor; space planning for medical record services in a health-related facility; seminar.

## 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.

**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.

**The following medical technology courses are offered intermittently and are NOT part of the standard curriculum:**

**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 hematologic techniques. Individual projects assigned if student is sufficiently advanced.

**AHLT C440 Bacteriology I (2 cr.)** Diagnostic procedures as means to familiarize student with techniques; work on specimens received from hospital patients under supervision; practical experience with all types of human specimens for bacteriologic and mycologic study.

**AHLT C441 Bacteriology II (2 cr.)** P: C440. Agglutination and precipitin techniques and their special application to agglutination titers and the use of antibiotics. Special assignments to provide experience with organisms infrequently encountered.

**AHLT C442 Bacteriology III (2 cr.)** P: C440, C441. Student should be able to handle usual and somewhat unusual hospital bacteriologic and mycologic problems independently.

**AHLT C450 Serology I (2 cr.)** Introduction to serologic and immunologic principles.

**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 techniques 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 before 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 Occupational Therapy Art & Craft Techniques (3 cr.)** Presentation of art, design, and minor crafts as utilized in occupational therapy treatment.

**AHLT S102 Therapeutic Group Activities (3 cr.)** Analysis and use of a variety of group activities used in occupational therapy treatment.

**AHLT S103 Medical Terminology (1 cr.)** Introduction to 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 S160 Kinesiology (2 cr.)** Analysis of human motion with emphasis on the range of motion and muscle strength related to occupational performance.

**AHLT S205 Daily Life Skills (2 cr.)** Laboratory course offering supervised learning experiences in therapeutic application of daily life skills.

**AHLT S206 Adaptations of Daily Life Skills (1 cr.)** Laboratory course that presents learning experiences in various adaptations to assist the patient in daily life skills with emphasis on equipment adaptations.

**AHLT S209 Therapeutic Activities I (3 cr.)** Laboratory course that provides supervised learning experiences in woodworking skills, leather media skills, and teaching techniques.

**AHLT S210 Therapeutic Activities II (2 cr.)** Laboratory course that provides supervised learning experiences in ceramics and fiber crafts.

**AHLT S212 Therapeutic Activities III (1 cr.)** Laboratory course that provides supervised learning experiences in therapeutic use of splints and splinting techniques.

**AHLT S231 Community Practicum (1 cr.)** Role identification as an occupational therapy assistant relating to community agencies and health disciplines.

**AHLT S234 Field Practicum (3 cr.)** Supervised patient/client contact in psycho-social and physical dysfunction occupational therapy facilities. Emphasis on screening, evaluation, treatment planning and implementation. Attendance at a weekly seminar is required.

**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 T203 Fundamentals of Occupational therapy (3 cr.)** Examines the concept of occupational therapy and establishes a philosophical base for subsequent course work by introducing concepts fundamental to the practice of occupational therapy.

**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 T325 Practicum I (1 cr.)** P: AHLT T203. Clinical observation and practice of the occupational therapy skills and theory presented in OT theory and OT technique courses.

**AHLT T348 Occupational Therapy Techniques I (1 cr.)** Laboratory course that provides occupational therapy students supervised learning experiences in the therapeutic use of selected crafts and other media (ceramics and weaving).

**AHLT T349 Occupational Therapy Techniques II (1 cr.)** A laboratory course that provides occupational therapy students supervised learning experiences in the therapeutic use of selected crafts and other media (i.e. printing, mosaic, metal work, leather, basketry, yarn crafts, needle work.)

**AHLT T350 Occupational Behavior and Human Development (5 cr.)** Investigation of dynamic interrelationships among the biological, psychological, and sociological aspects of human development and its impact on occupational behavior and performance.

**AHLT T351 Occupational Therapy Techniques III (1.5 cr.)** Laboratory course that provides supervised learning experiences utilizing woodworking as a therapeutic modality.

**AHLT T352 Occupational Therapy Techniques IV (1.5 cr.)** P: AHLT T350. Lecture and laboratory experiences providing knowledge and skills necessary to implement treatment in the area of daily life skills.

**AHLT T353 Occupational Therapy Techniques V (1 cr.)** P: AHLT T351. Lecture and laboratory course that provides supervised learning experiences in the construction of splints and their use as a therapeutic modality.

**AHLT T361 Psychosocial Dysfunction Theory and Practice I (2.5 cr.)** P: AHLT T350 and AHLT T203. Introduction to the psychiatric occupational therapy process including various frames of reference and diagnostic categories.

**AHLT T362 Physical Dysfunction Theory and Practice I (2.5 cr.)** P: AHLT T350, AHLT T450, and AHLT T203. Principles of occupational therapy evaluation and treatment in physical disabilities based on sensory motor theories.

**AHLT T363 Professional Writing and Interview Skills (1 cr.)** P: AHLT S103 and AHLT T203. Instruction in professional writing and interviewing skills necessary in the practice of occupational therapy.

**AHLT T426 Practicum II (1 cr.)** P: AHLT T325. Continuation of AHLT T325. Clinical observation and practice of the occupational therapy skills and theory presented in the OT theory and OT techniques courses.

**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 Management of Occupational Therapy Services (4 cr.)** P: Senior Standing. Study of the occupational therapist's role in service management, the health care system, and professional values, attitudes, and standards.

**AHLT T461 Psychosocial Dysfunction Theory and Practice II (2 cr.)** P: AHLT T361. Evaluation and treatment techniques used in occupational therapy as related to specific frames of reference and diagnostic categories.

**AHLT T462 Physical Dysfunction Theory and Practice II (2 cr.)** P: AHLT T362. Occupational therapy evaluation and treatment principles for selected diagnostic categories in the area of physical disabilities.

**AHLT T463 Introduction to Research in Occupational Therapy (1 cr.)** Examines and studies the research process and its implication and application in clinical and academic settings.

**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 Human Development (2 cr.)** Development of the individual from conception to death is discussed. The development of motor behavior from birth to five years is emphasized. Processes underlying all aspects of human development are discussed and related to the normal and exceptional individual.

**AHLT P310 Orientation to Physical Therapy (1 cr.)** Introduction to the physical therapy profession and the professional curriculum at Indiana University. Analysis of the medical model and alternatives for the delivery of health care including the role of physical therapy. Discussion of the student's needs and professional and curricular factors which will both enable and inhibit the student in meeting those needs.

**AHLT P311 Applied Anatomy for Physical Therapists (2 cr.)** Application of anatomical concepts to the living, moving human body. Topics covered include surface anatomy, goniometry, manual muscle testing, and massage. Taught concurrently with Anatomy D323 following a similar regional approach. Emphasis is placed on developing specific skills and knowledge of the relationships between deep and superficial structures.

**AHLT P312 Physical Therapy Theories and Procedures (2 cr.)** A general survey of theories underlying the practice of physical therapy including the problem solving approach to patient care and documentation, physiology of pain, and physiological responses to various types of heat, cold, and exercise. This course covers theoretical concepts basic to the remainder of the professional curriculum.

**AHLT P313 Physical Therapy Management of Orthopedic Conditions (3 cr.)** Physical therapist's approach to the management of orthopedic problems. Review of normal anatomy and physiology of bone with emphasis on bone healing. Evaluation and treatment of orthopedic conditions and secondary complications. Patient management, crutch training, basic exercise procedures, uses of specific heat and cold modalities. Problem solving approach to treatment is emphasized. Case studies required.

**AHLT P314 Physical Therapy Management of Soft Tissue Injuries (3 cr.)** Management of soft tissue injuries including a review of normal soft tissue anatomy and physiology, pathology and general medical management. Kinesiology of the extremities. Physical therapy evaluation and treatment including goal setting, program planning and implementation. Introduction to phonophoresis, electroanalgesia, joint mobilization, project including review of literature and case study required.

**AHLT P315 Physical Therapy Management of Arthritic Conditions (1 cr.)** Review of normal joint structure and function. Discussion of pathological and functional changes related to the arthritic and collagen diseases. Physical therapy and medical management with emphasis on the physical therapist's interaction with the arthritis team. Introduction to social-psychological effects of long-term disability. Case study required.

**AHLT P316 Physical Therapy Management of Peripheral Nervous and Muscular Disorders (1 cr.)** Review of normal structure, function, and common pathologies of peripheral nervous and muscular system disorders with emphasis on electrical testing and treatment and splinting. Program planning and implementation. Case study required.

**AHLT P317 Physical Therapy Management of Peripheral Vascular Disorders (1 cr.)** Review of the peripheral vascular system and common pathologies. Physical therapy management of peripheral vascular disease, lymphatic disorders, and ischemic ulcers. Introductions to sterile techniques, ultraviolet

therapy, hydrotherapy, and prosthetics. Treatment planning and implementation for the patient with peripheral vascular disorders and for the amputee.

**AHLT P318 Physical Therapy Management of Neck and Trunk Problems (2 cr.)** Normal structure and kinesiology of the neck and trunk. Survey of pathology of the vertebral column and related structures. Evaluation of patient problems through taking history, testing flexibility, strength, and sensation. Specific tests for spinal column function. Treatment considerations with introduction to traction, pain modulation, biofeedback, and spinal mobilization.

**AHLT P319 Clinical Analysis of Gait (1 cr.)** Introduction to the normal parameters of gait and common gait deviations. Clinical analysis of gait based on objective parameters. Practical experience in analyzing gait through laboratory experiences and the use of media. Approaches for physical therapy intervention for common gait deviations. Project required.

**AHLT P320 Physical Therapy Management of Sports Injuries (1 cr.)** Physical therapy approach to treating the athlete and athletic injuries. Emphasis on emergency procedures and early physical therapy evaluation and intervention in traumatic injuries. Screening procedures and techniques used in preventing and treating sports injuries. Comparison of the reactions of athletes and non-athletes to injury. Introductions to the analysis of research. Case study required.

**AHLT P403 Interdisciplinary Care of Multi-handicapped Children (2 cr.)** Exploration of the multiple educational and health care disciplines and facilities related to services for the pediatric population. Field trips to centers in Indiana provide on-site observation and appropriate program participation.

**AHLT P421 Physical Therapy Management of Cardiopulmonary Problems (2 cr.)** Review of normal structure, function, and common pathologies of the cardiorespiratory system with an emphasis on abnormal responses to exercise. Program planning for the cardiorespiratory patient including inpatient, outpatient, and home programs. Introduction to postural drainage, breathing retraining program, and chest mobilization procedures.

**AHLT P422 Physical Therapy Management of Spinal Cord Injuries (2 cr.)** Review of normal structure and function of the spinal cord and related structure. Functional implications of lesions at various levels. Rehabilitation approach to the spinal cord patient with emphasis on program planning and progression in long-term disability. Introduction to orthotic devices and adaptive equipment.



**AHLT P423 Physical Therapy Management of the Multihandicapped Patient (2 cr.)**

Physical therapy approach to the patient with multiple handicaps with an emphasis on setting priorities in program planning. Case studies emphasizing approaches to the pediatric and geriatric patient. Introduction to pre- and post-partum therapy. Projects required.

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

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.)**

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

**AHLT P490 Physical Therapy Senior Projects (4 cr.)**

Individually designed projects in education, administration, and/or clinical research. Project proposals require the approval of the program director and the faculty adviser.

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

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.)**

Advanced experience in a clinical setting supervised by registered physical therapists in facilities affiliated with the educational program.

## **Radiologic Sciences, Medical Center, Indianapolis**

**AHLT R100 Patient Care in Radiologic Science (2 cr.)**

Introduction to health care practices in the radiology department. Includes overview of radiology, ethics, patient care, and professional standards.

**AHLT R101 Radiographic Procedures I (3-4 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 of Disease (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 (1-3 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 in Radiography (1-6 cr.)**

**AHLT R182 Clinical Experience in Radiography (1-6 cr.)**

**AHLT R281 Clinical Experience in Radiography (1-6 cr.)**

**AHLT R282 Clinical Experience in Radiography (1-6 cr.)**

**AHLT R283 Clinical Experience in Radiography (1-6 cr.)** 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 vascular and neurological radiography, ultrasound, C.A.T., N.M.R., 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 Diagnostic Imaging Applications I (3 cr.)** Lectures and film critique concerning application of computer axial tomography and ultrasound. Student presentations and journal reports required.

**AHLT R406 Diagnostic Imaging Applications II (3 cr.)** Lectures and film critique concerning application of ultrasound, vascular and neurological angiography, digital vascular imaging, myelography, lymphography and nuclear magnetic resonance. Student presentations and journal reports required.

**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 R408 Topics in Radiologic Sciences (0.5-4 cr.)** Study of selected topics in Radiologic Sciences. May be repeated once for credit if topics differ.

**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 (2 cr.)** This course will introduce the principles of tracer methodology and apply that methodology to the measurement of dynamic and steady state systems within the body. Special emphasis will be placed on measuring endocrine and hemological functions.

**AHLT R432 Clinical Application of Radionuclides (4 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 (4-8 cr.)** Practical clinical application of nuclear medicine theory.

**AHLT R446 Clinical Nuclear Medicine Practicum II (4-8 cr.)** Continuation of AHLT R445.

**AHLT R447 Clinical Nuclear Medicine Practicum III (2-8 cr.)** Continuation of AHLT R446.

## Radiologic Sciences (IUN)

The following courses are offered at Indiana University Northwest.

**AHLT R100 Orientation to Radiologic Technology (2 cr.)** C or P: R101, R102, and R181. Introduction to the Radiologic Technology Program and to the field of radiology and its history. Student learns proper ethical standards, becomes acquainted with the duties and responsibilities in personal care for the patient, investigates radiation protection for the patient and personnel.

**AHLT R101 Radiographic Procedures I (3 cr.)** C or P: R100, R102, R181 and P261. To obtain knowledge, skills and application of alignment of body parts, cassette, and xray tubes in each radiographic examination. Emphasis is on procedures used to demonstrate the skeletal system and on resulting radiographic anatomical demonstration.

**AHLT R102 Principles of Radiography I (3 cr.)** C or P: R100, R101 and R181. Basic fundamentals concerned with production, analysis, and recording of the radiographic image. Includes film processing and film critique.

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

**AHLT R201 Radiographic Procedures II (3 cr.)** C or P: R101, R202, R185 and P262. Furthering knowledge, skills, and application of alignment of body parts, cassette, xray tubes in each radiographic examination. Emphasis is on contrast studies and resulting radiographic anatomical demonstration.

**AHLT R202 Principles of Radiography II (3 cr.)** C or P: R102, R201, and R182. Detailed study of major fundamentals considered in Principles of Radiography I. Emphasis on prime factors, radiographic quality, exposure factors, accessory devices, and formulation of techniques charts.

**AHLT R205 Radiographic Procedures III (3 cr.)** C or P: R201, R222 and R282. 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.)** C or P: R202, R205 and R282. Basic principles and application of imaging equipment to include both radiographic and nonradiographic equipment and techniques.

**AHLT R250 Physics Applied to Radiology (3 cr.)** C or P: M100, R222 and R282. Advanced principles of xray generation with emphasis on circuitry. Consideration is given to different types of generating equipment. Laboratory included.

**AHLT R260 Radiobiology and Protection (2 cr.)** C or P: R222 and R283. Study of the biological effect of ionizing radiation and the standards and methods of protection. Emphasis is placed on xray interactions. Also included are discussions on radiation exposure standards and radiation monitoring.

**PATH C477 Pathology (3 cr.)** P: R185 or M195 (Medical Terminology), P261 and P262. A general survey of the changes that occur in the diseased state to include general concepts of disease, cause of disease, clinical symptoms and treatment, and the diseases that affect specific body systems.

**AHLT R181 Clinical Experience I (2 cr.)** C or P: R100, R101 and R102. Clinical application of radiographic positioning, exposure techniques, and departmental procedures in all phases of radiologic technology under the direct supervision of a registered technologist until mastery is reached.

**AHLT R182 Clinical Experience II (2 cr.)** C or P: R181, R201 and R202. Clinical application of radiographic positioning, exposure techniques, and departmental procedures in all phases of radiologic technology under the direct supervision of a registered technologist until mastery is reached.

**AHLT R281 Clinical Experience III (4 cr.)** C or P: R182, R201 and R202. Clinical application of radiographic positioning, exposure techniques, and departmental procedures in all phases of radiologic technology under the direct supervision of a registered technologist until mastery is reached.

**AHLT R282 Clinical Experience IV (3 cr.)** C or P: R281, R205, R222 and R250. Clinical application of radiographic positioning, exposure techniques, and departmental procedures in all phases of radiologic technology under the direct supervision of a registered technologist until mastery is reached.

**AHLT R283 Clinical Experience V (3 cr.)** C or P: R282 and R260. Clinical application of radiographic positioning, exposure techniques, and departmental procedures in all phases of radiologic technology under the direct supervision of a registered technologist until mastery is reached.

**AHLT R290 Comprehensive Experience (4 cr.)** P: R283. Clinical application of radiographic positioning, exposure techniques, and departmental procedures in all phases of radiologic technology under the direct supervision of a registered technologist until mastery is reached. Successful completion requires mastery of all clinical aspects of the program.

**AHLT R408 Topics in Radiologic Sciences (0.5-4 cr.)** Study of selected topics in Radiologic Sciences. May be repeated once for credit if topics differ.

## **Respiratory Therapy, Medical Center, Indianapolis**

**AHLT F200 Pharmacology for the Respiratory Care Practitioner (2 cr.)** Designed for the respiratory therapist, this course presents a basic overview of pharmacologic principles as applied to general body systems and in-depth coverage of pharmacologic agents used in cardiopulmonary disorders management is presented through a didactic and laboratory classroom format.

**AHLT F206 Foundations of Respiratory Therapy (2-3 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. **Note:** Credit cannot be given for F205 (IUN) and F206.

**AHLT F211 Introduction to Clinical Education (1-3 cr.)** Laboratory and clinical experience to support the content areas presented in Gas and Aerosol Therapy.

**AHLT F212 Respiratory Therapy Clinical Education I (4 cr.)** P: F270, C: 271. 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 Education II (4 cr.)** P: F212, F243, C: 273. Clinical experience in treatment modalities, and introduction to ventilation therapy.

**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 (3 cr.)** Discussion of the modalities utilized in chest physiotherapy, counter-indications, breath sounds and incentive spirometry; theory and rationale of IPPB therapy; IPPB equipment, IPPB techniques; spirometers.

**AHLT F253 Diagnostic Testing and Monitoring (2-6 cr.)** Comprehensive study of pulmonary functions; detailed blood gas analysis and related equipment; pulmonary rehabilitation.

**AHLT F258 Respiratory Therapy Clinical Education III (3 cr.)** P: F213, F273. A comprehensive seven-week session which emphasizes ventilator/patient management techniques and related procedures. In addition, students will gain experience in those clinical areas which support course material in other Respiratory Therapy modalities.

**AHLT F259 Respiratory Therapy Supervisory Skills (1-3 cr.)** Development of principles of managing people. Focused on providing the respiratory therapy supervisor with the knowledge to effectively perform the functions of staffing, motivating, directing, performance appraisal, discipline and communication.

**AHLT F265 Principles of Gas Therapy Administration (2-3 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; sterilization and disinfection with emphasis on techniques and agents. **Note:** Credit cannot be given for F265 and F270 (IUN).

**AHLT F271 Resuscitation and Airway Management (1 cr.)** A study of the indications and hazards of artificial airway; emergency airway care and life support techniques in respiratory and cardiac failure. Includes theory, demonstration and practical application.

**AHLT F272 Cardiopulmonary Pathophysiology (3 cr.)** To acquaint the student with the disease process, etiology, diagnosis and treatment, so as to provide the necessary information for the respiratory therapist to relate respiratory therapy techniques and treatment methods to clinical methods.

**AHLT F273 Principles of Ventilators (4 cr.)** A study of various types of mechanical ventilators and their indications for specific use. The application of ventilators to the clinical situation.

**AHLT F300 Readings in Respiratory Therapy (1-5 cr.)** Designed to enable the student to actively review and critique literature pertinent to respiratory therapy. The student may identify a particular subject to pursue or review either selected or general topics in respiratory therapy. Reports and discussion by students and faculty.

**AHLT F310 Seminars in Respiratory Therapy (1-5 cr.)** The student selects and reviews current seminars or lectures pertaining to respiratory therapy. The student may identify and review respiratory therapy lectures on or off campus. Reports and discussion by students and faculty.

**AHLT F370 Respiratory Therapy Departmental Organization and Management (1-2 cr.)** Specific theory and practice applied to directing and managing a respiratory therapy department. Will apply the managerial functions of budgeting, controlling, cost analysis, organization, labor relations, decision making and planning. Designed to augment information presented in AHLT X300.

**AHLT F400 Physiologic Aspects of Respiratory Care (2-4 cr.)** Prerequisite C102 or equivalent. An advanced physiology course for the respiratory therapist. Topics include tissue oxygenation, physiologic stress, selected case studies, arterialization, regional perfusion,  $O_2$  extraction and utilization,  $CO_2$  production, stress testing and monitoring of cardiopulmonary function.

**AHLT F410 Independent Study in Respiratory Therapy (1-5 cr.)** An opportunity for the student of respiratory therapy to identify a relevant area of concern within the field and to develop a tangible solution to or outcome of the concern. Reports and discussion by students and faculty.

**AHLT F450 Cardiorespiratory Management of the Neonate (3 cr.)** An indepth study of normal and abnormal fetal and neonatal respiratory distress. Oxygen therapy, continuous positive airway pressure, mechanical ventilation, continuous blood gas monitoring

and transport of the high risk infant are discussed in detail.

**AHLT F455 Advanced Neonatal Clinical Experience (3 cr.)** Advanced clinical experience with critically ill neonates requiring all modes of respiratory intensive care including oxygen therapy, CPAP, mechanical ventilation, continuous blood gas and respiratory monitoring and transport between facilities. The student will assess the critically ill newborn's clinical condition, interpret physiologic data, and justify modification in the patient's respiratory care. Applies knowledge learned in AHLT F450 (satisfactory completion or concurrent enrollment required).

**AHLT F460 Advanced Emergency Care of Cardiopulmonary Disorders (3-5 cr.)** Lecture and lab course designed to provide the respiratory practitioner with advanced knowledge and skills in all aspects of cardiopulmonary emergencies. Content areas include intubation and other airway maintenance techniques, dysrhythmia monitoring and recognition, defibrillation and cardioversion, intravenous techniques, emergency pharmacological agents and acute and chest trauma management.

## Respiratory Therapy (IUN)

The following courses are offered at Indiana University Northwest

**AHLT F105 Pharmacology (2 cr.)** P: F205, F270, F271. Brief history of pharmacology with a study of drugs affecting primarily the respiratory, circulatory, and nervous systems.

**AHLT F181 Clinical Education I (2 cr.)** P: F205, F270, F271; concurrent enrollment in Summer Session II course. Practical experience conducted at a hospital affiliated with the respiratory therapy program under the direct supervision of a registered respiratory therapist instructor for approximately 24 hours per week. Emphasis is on material covered in the first and second summer session.

**AHLT F182 Clinical Education II (4 cr.)** P: F105, F181, F202; concurrent enrollment in Fall courses. Practical experience conducted at a hospital affiliated with the respiratory therapy program under the direct supervision of a registered respiratory therapist instructor for approximately 24 hours per week. Emphasis is on material covered in Summer Session II and the Fall semester.

**AHLT F202 Respiratory Therapy II (3 cr.)** P: F205, F270, F271. Various forms of humidification therapy, including aerosols, nebulizers, and humidifiers. Detailed study of lung segments and their physical drainage with the use of vibration and percussion. Rationale and application of pulmonary rehabilitation.

**AHLT F205 Respiratory Therapy I (3 cr.)** Introduction to respiratory therapy; governing agencies; emphasis on professionalism and ethics; theory and application of regulation of gas flow, cylinders, regulators and flowmeters; patient care; concepts of illness, record keeping; and sterilization of respiratory therapy equipment.

**AHLT F253 Diagnostic Testing & Monitoring (5 cr.)** P: F105, F181, F202. Methods of lung function studies; testing procedures and reading of pulmonary function tests. Study of acid-base balance in the body; blood gas analysis procedures and calculation; cardiovascular monitoring and application of these test results with day-to-day evaluation of patients on continuous artificial ventilation.

**AHLT F270 Gas Therapy (2 cr.)** Indications and hazards of oxygen therapy; theory and application of oxygen appliances and techniques, helium-oxygen therapy, carbon dioxide therapy and theory and application of IPPB therapy.

**AHLT F271 Airway Management (1 cr.)** A study of indications and hazards of artificial airways; emergency airway care and life support techniques in respiratory and cardiac failure. Includes theory, demonstration and practical application.

**AHLT F272 Cardiopulmonary Pathophysiology (3 cr.)** P: F105, F181, F202. To acquaint the student with the disease process, etiology, diagnosis and treatment, so as to provide the necessary information for the respiratory therapist to relate respiratory therapy techniques and treatment methods to clinical methods.

**AHLT F273 Principles and Management of Ventilators (4 cr.)** P: F105, F181, F202. A study of various types of mechanical ventilators and their indications for specific use. The application of ventilators to the clinical situation.

**AHLT F274 Pediatric Respiratory Care (2 cr.)** P: F182, F253, F272, F273. A study of pediatric and neonatal anatomy and physiology. Emphasis on care of the newborn and treatment procedures of newborns and pediatric patients with cardiopulmonary disorders.

**AHLT F275 Comprehensive Clinical Education III (5 cr.)** P: F182, F253, F272, F273; concurrent enrollment in Spring courses. Practical experience under the direct supervision of a registered respiratory therapist instructor, totaling approximately 32 hours per week.

## School of Medicine Courses

Courses in the basic science department of the Indiana University School of Medicine: Anatomy, Physiology, and Psychiatry. Enrollment is limited to students in the Division of Allied Health Sciences in the following courses:

**ANAT D323 Anatomy (5 cr.)** Gross human anatomy for physical and occupational therapy students. Predissected material utilized. Enrollment limited to students in the Division of 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 physiology of muscular activity. Enrollment limited to students in the Division of 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 the Division of Allied Health Sciences.

## Faculty and Staff, 1983-85

### Credential Abbreviations

A.R.T.—Accredited Record Technician  
 C(ASCP)—Technologist in Chemistry  
 C.C.C.S.P.—Certificate of Clinical Competence, Speech Pathology  
 C.L.S.—Clinical Laboratory Scientist  
 C.L.T.—Clinical Laboratory Technician  
 C.O.T.A.—Certified Occupational Therapy Assistant  
 C.T. (ASCP)—Cytotechnologist  
 I(ASCP)—Technologist in Immunology  
 L.P.T.—Licensed Physical Therapist  
 M(ASCP)—Technologist in Microbiology  
 M.T.(ASCP)—Medical Technologist  
 N.M.(ASCP)—Nuclear Medical Technologist  
 C.N.M.T. (NMTCH)—Nuclear Medicine Technologist Certification Board  
 R.T.N.(ARRT)—Nuclear Medicine Technologist  
 S.B.B.(ASCP)—Specialist in Blood Banking  
 SC(ASCP)—Specialist in Chemistry  
 SH(ASCP)—Specialist in Hematology  
 S.I.(ASCP)—Specialist in Immunology  
 SM(ASCP)—Specialist in Microbiology  
 O.T.R.—Registered Occupational Therapist  
 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

#### Emeritus Faculty

Adams, Harold S., B.S. (*Massachusetts State College, 1929*), R.P.S. (*State of Indiana, Associate Professor Emeritus of Environmental Health Sciences*)

Ekstam, Frances C., M.S. (*Indiana University, 1960*), R.P.T. (1944), *Professor Emeritus of Physical Therapy*

Ladue, Ruth A., M.A. (*Stanford University, 1967*), R.P.T. (1945), *Assistant Professor Emeritus of Physical Therapy*

#### Faculty

Alber, David, B.S. (*Indiana University, 1974*), M.T. (ASCP) 1974, SC(ASCP) 1979, *Supervisor, Department of Pathology, University Hospital, Indianapolis*

Allen, Stephen D., M.D. (*Indiana University, 1970*), *Associate Professor of Pathology*

Appledorn, C. Robert, M.S. (*University of New Mexico, 1977*), NMT (A.R.R.T., 1972), *Assistant Professor of Radiology*

Ashton, Janatha, M.S. (*Indiana University, 1978*), R.R.A. (1965), *Assistant Professor of Medical Record Administration*

Baker, Sarah S., M.S. (*Indiana University, 1979*), A.R.R.T. (1973), *Assistant Professor of Radiologic Sciences*

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

Young, Mary K., A.M. (*University of Michigan, 1937*), R.P.T. (1936), *Assistant Professor Emeritus of Physical Therapy*

Barth, Kathleen A., B.S. (*St. Mary-of-the-Woods College, 1975*), M.T. (ASCP) 1976, *Supervisor, Department of Pathology, Riley Hospital, Indianapolis*

Bartlett, Marilyn, M.S. (*Indiana University, 1974*), M.T. (ASCP) 1951, SM(ASCP), *Associate Professor of Medical Technology*

Bonderman, Dean P., Ph.D. (*University of Iowa, 1968*), *Associate Professor of Pathology*

Brashear, R.E., M.D. (*Ohio State University, 1958*), *Associate Professor of Medicine*

Bruckner, Janice S., M.S. (*Sargent College of Allied Health Professions, Boston University, 1977*), L.P.T. (1977), *Assistant Professor of Physical Therapy*

- Carl, T. Kay, B.S. (Indiana University, 1967), O.T.R., 1967, Assistant to the Director for Student Affairs, Division of Allied Health Sciences and Assistant Professor of Occupational Therapy
- Crabtree, William N., B.S. (University of Tennessee Center for Health Sciences, 1977), Instructor in Cytotechnology
- Eigen, Howard, M.D. (State University of New York, 1968), Associate Professor of Anesthesiology and Respiratory Therapy
- Eitzen, Harold E., Ph.D. (University of Michigan, 1969), Associate Professor of Pathology, and Coordinator of Hospital Environmental Health
- Farber, Marilyn, B.S. (Indiana University, 1973), M.T. (ASCP) 1973, SC(ASCP) 1979, Supervisor, Department of Pathology, Riley Hospital, Indianapolis
- Feeley, Mary, Ed.S. (Butler University, 1976), M.T. (ASCP) 1946, Associate Professor and Director of Medical Technology
- Foegelle, Walter E., M.S. (Southwest Texas State University, 1976), Assistant Professor and Director of Health Services Management
- Freeman, Ellen, R.N. (St. Vincent Hospital, 1960), R.R.T. (1964), Instructor in Respiratory Therapy
- French, Morris L.V., Ph.D. (University of Michigan, 1969), Professor of Pathology
- Gartner, Donald J., M.S. (Indiana University, 1972), M.T. (ASCP) 1967, Associate Professor of Medical Technology
- Gibbs, Phillip S., M.D. (Indiana University, 1968), Associate Professor of Anesthesiology and Respiratory Therapy
- Glant, Michael D., M.D. (Indiana University, 1976), Assistant Professor of Pathology and Medical Director of Cytotechnology
- Glinks, Barbara M., B.S. (DePaul University, 1974), M.T. (ASCP) 1975, M(ASCP) 1978, Instructor and Clinical Coordinator, Medical Laboratory Technology (IUN)
- Griep, John A., M.D. (University of Michigan, 1962), Professor of Pathology
- Gruver, Gary, M.Ed. (University of Missouri, 1979), R.R.T. (1978), Assistant Professor of Respiratory Therapy and Coordinator of Associate Degree Program
- Hamant, Celestine, M.S. (Butler University, 1971), O.T.R. (1963) Director, Occupational Therapy Department, and Associate Professor of Occupational Therapy
- Haskins, Sharon, M.S. (Indiana University, 1979), M.T. (ASCP) 1968, Supervisor, Department of Pathology, University Hospital, Indianapolis
- Hernandez, Emily, M.S. (Indiana University, 1978), A.R.R.T. (1970), Assistant Professor and Educational Coordinator of Radiologic Sciences
- Hersch, Gayle, M.S. (Indiana University, 1979), O.T.R. (1964), Assistant Professor of Occupational Therapy
- Hicks, Edward J., Ph.D. (University of Iowa, 1969), Professor of Pathology
- Hinkle, William G., Ph.D. (Purdue University, 1971), C.C.C.S.P., Associate Professor of Allied Health and Assistant Director and Northwest Campus Chairperson, Division of Allied Health Sciences
- Hocker, Narcissa, M.S. (Indiana University, 1964), M.T. (ASCP) 1945, S.B.B. (ASCP), 1955, Associate Professor of Medical Technology
- Hostetler, Mary, B.S. (Indiana State University, 1964), M.T. (ASCP) 1964, S.C. (ASCP) 1975, Supervisor, Department of Pathology, University Hospital, Indianapolis
- Howell, Damien W., M.S. (Medical College of Virginia, 1977), R.P.T. (1972), Associate Professor of Physical Therapy
- Jacobs, Eldred F., M.S. (Indiana University, 1974), M(ASCP) 1974, Technologist, Department of Pathology, University Hospital, Indianapolis
- Jones, Joyce, B.S. (Indiana University, 1969), M.T. (ASCP) 1969, S.C. (ASCP) 1976, Supervisor, Department of Pathology, University Hospital, Indianapolis
- Kasper, Linda M., M.S. (Indiana University, 1977), M.T. (ASCP) 1963, S.C. (ASCP) 1975, Associate Professor and Assistant Director of Medical Technology
- Kehrein, Suetta, M.S. (Indiana University, 1975), A.R.R.T. (1964), Assistant Professor of Radiologic Sciences and Coordinator of Baccalaureate Programs
- Kiel, Judith, M.S., (Indiana University, 1979), O.T.R. (1969), Assistant Professor of Occupational Therapy, part time
- Klatte, Eugene C., M.D. (Indiana University, 1952), Chairman, and Distinguished Professor of Radiology, Director of Radiologic Sciences
- Korba, Elaine M., B.S. (Indiana University, 1977), R.P.T. (1977), Instructor in Physical Therapy
- Korn, Betty, M.S. (Indiana University, 1978), M.T. (ASCP) 1953, S.B.B. (ASCP) 1979, Supervisor, Department of Pathology, University Hospital, Indianapolis
- Kosegi, Judith E., M.S. (Indiana University, 1978), NMT (A.R.R.T., 1973), Assistant Professor of Radiologic Sciences
- Koss, Joseph A., M.S. (Indiana University, 1977), R.R.T., Director and Associate Professor of Respiratory Therapy



- Lamport, Nancy, B.S., O.T.R. (Ohio State University, 1953), Instructor in Occupational Therapy
- Ledbetter, Marlene, M.Ed. (University of Illinois, 1981), A.R.R.T., (1973), Assistant Professor of Allied Health (IUN) and Clinical Coordinator, Radiologic Technology Program
- Leland, Diane, M.S. (University of Vermont, 1977), M.T. (ASCP) 1970, SM (ASCP) 1978, Assistant Professor of Medical Technology
- Lemons, James A., M.D. (Northwestern University, 1969), Associate Professor of Pediatrics and Respiratory Therapy
- Lievertz, Randolph W., M.D. (University of Michigan, 1979), Clinical Assistant Professor of Family Medicine and Allied Health Sciences
- LoSasso, Alvin M., M.D. (The Ohio State University, 1963), Medical Director of the Respiratory Therapy Program and Professor of Anesthesiology and Respiratory Therapy
- McCarthy, Leo J., M.D. (University of Nebraska, 1961), Associate Professor of Pathology
- McClure, Cynthia, B.S. (Indiana University, 1973), M.T. (ASCP) 1973, N.M. (ASCP) 1976, Supervisor, Department of Pathology, University Hospital, Indianapolis
- McKenna, Arlene M., M.Ed. (University of Illinois, 1981), A.R.R.T., (1973), Assistant Professor of Allied Health and Program Director of Radiologic Technology (IUN)
- McKenzie, Mary L., M.S. (Indiana University, 1973), R.R.A. (1954), Associate Professor and Director of Medical Record Administration
- 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, SM(ASCP) 1979, Assistant Professor of Medical Technology
- Markanich, Marianne, B.S. (Indiana University, 1962), M.T. (ASCP) 1962, S.C. (ASCP) 1976, Supervisor, Department of Pathology, University Hospital, Indianapolis
- Marzouk, Donna Keefe, M.S. (Sargent College of Allied Health Professions, Boston University, 1981), R.P.T. (1961), Assistant Professor of Physical Therapy
- Matthews, William M., M.S. (Indiana University, 1946), Associate Professor of Anesthesiology
- Miller, M. Devon, M.S. (Indiana University, 1966), Assistant Professor of Medical Record Administration
- Miller, Jerry, M.D. (Temple University, 1947), Professor of Anesthesiology
- Miller, Maurice, B.S. (Indiana University, 1981), R.R.T., Instructor in Respiratory Therapy
- Moorehead, Wells R., Ph.D. (University of Tennessee, 1965), Professor of Pathology
- Moorthy, Sreenivasa S., M.D. (M.B.B.S. Andhra Medical College, Visakhapatnam, India, 1957), Assistant Professor of Anesthesiology and Respiratory Therapy
- Nathan, Carol., A.M. (University of Southern California, 1968), O.T.R. (1958), Assistant Dean of the Faculties and Associate Professor of Occupational Therapy
- Neff, Paula E., M.S. (Indiana University, 1978), J.D. (The John Marshall Law School, 1982), R.R.T., Associate Professor of Allied Health and Program Director of Respiratory Therapy (IUN)
- Newell, Judith M., B.S. (Northern Illinois University, 1972), C.L.S., M.T. (ASCP) 1972, SM(ASCP) 1979, SI(1982), Assistant Professor and Program Director of Medical Laboratory Technology
- Nordschow, Carleton, M.D. (University of Iowa, 1953), Ph.D., (University of Iowa, 1964), Director of Medical Technology, Chairman and Professor of Pathology
- Oakes, E. Jay, B.S. (Indiana University, 1980), A.R.R.T. (1978), Instructor in Radiologic Sciences
- O'Brien, Debra K., M.S. (Indiana University, 1980), C.T. (ASCP), 1974, Assistant Professor of Cytotechnology, part time
- Oei, Tjen O., M.D. (University of Indonesia, 1958), Professor of Pathology
- Pierce, Edward R., Ph.D. (University of Louisville, 1968), M.P.H. (Johns Hopkins, 1970), Associate Dean, School 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), Associate Professor and Director of Physical Therapy
- Proksch, Gary J., Ph.D. (University of Iowa, 1970), Associate Professor of Pathology
- Proksch, Sandra A., B.S. (Purdue University, 1976), M.T. (ASCP) 1976, Senior Medical Technologist, University Hospital, Indianapolis
- Reynolds-Lynch, Kathleen, M.S. (Wayne State University, 1979) O.T.R. (1974), Occupational Therapist, Riley Hospital, and Lecturer in Occupational Therapy
- Ridley, Elton T., M.B.A. (University of Chicago, 1952), Associate Professor and Assistant to the Director, Division of Allied Health Sciences
- Roesch, Ryland P., M.D. (Indiana University, 1948), Associate Professor of Anesthesiology

- Ryder, Kenneth, Ph.D. (Indiana University, 1972), M.D. (University of Illinois, 1975), Assistant Professor of Pathology
- Sample, Martha M., B.S. (Indiana University, 1974), M.T. (ASCP) 1974, N.M. (ASCP) 1978, Supervisor, Department of Pathology, Indianapolis
- Sample, Richard H.B., B.A. (Indiana University, 1977), C(ASCP) 1979, Technologist, Department of Pathology, Indianapolis
- Schreiner, Richard L., M.D. (Washington University, 1971), Professor of Pediatrics and Respiratory Therapy
- Siders, Jean A., M.S. (Indiana University, 1976), M.T. (ASCP) 1971, Supervisor, Department of Pathology, University Hospital, Indianapolis
- 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
- Skurka, Margaret A., M.S. (Purdue University, 1979), R.R.A. (1974), Assistant Professor of Allied Health and Program Director of Medical Record Technology (IUN)
- Smith, James W., M.D. (University of Iowa, 1959), Professor of Pathology
- Sprinkle, Joanne, M.S. (Indiana University, 1977), R.R.T. (1975), Assistant Professor of Respiratory Therapy
- Steinfeld, Jeanne, M.S. (Indiana University, 1976), M.T. (ASCP) 1967, S.M. (ASCP) 1975, Supervisor, Department of Pathology, University Hospital, Indianapolis
- Wall, Roger W., M.S. (Indiana University, 1977), C.T. (ASCP) 1970, Associate Professor and Program Director of Cytotechnology
- Weeks, Zona R., Ph.D. (Indiana University, 1982), O.T.R. (1959), Associate Professor of Occupational Therapy
- Wellman, Henry N., M.D. (St. Louis University, 1961), Director of Nuclear Medicine, and Professor of Radiology
- Wellman, Sara J., A.S. (Indiana University, 1974), A.R.T. (1974), Lecturer in Medical Record Technology and Clinical Coordinator for Medical Record Technology Program (IUN)
- Wheeler, Lawrence A., Ph.D. (University of Southern California, 1966), M.D. (University of Florida, 1975), Associate Professor of Pathology
- Whitson, Terry, B.S. (Indiana University, 1980), A.R.R.T. (1978), Instructor in Radiologic Sciences
- Wilson, Edward R., M.A. (Indiana Central University, 1976), M.T. (ASCP) 1965, S.M. (ASCP) 1979, Supervisor, Department of Pathology, University Hospital, Indianapolis
- Young, Mildred, M.S. (Butler University, 1966), M.T. (ASCP) 1942, SH(ASCP) 1980, Assistant Professor of Medical Technology
- Ziev, Daniel, M.D. (Northwestern Medical School, 1949), Director, Department of Radiology, St. Catherine Hospital, East Chicago, IN and Clinical Assistant Professor of Radiologic Technology (IUN)
- Zimmerman, Sarah E., Ph.D. (Wayne State University, 1969) Department of Pathology, Riley Hospital, Indianapolis

## Adjunct

- Allbaugh, Kim, B.S. (Manchester College, 1977), R.R.T. (1981), Instructor in Respiratory Therapy
- Atkins, Judith A., B.S. (Indiana University, 1968), Adjunct Instructor in Occupational Therapy
- Bailey, Joe, B.S. (Indiana University, 1979), Instructor in Respiratory Therapy
- Banham, Edward Paul, A.S. (Indiana University, 1976), Instructor in Respiratory Therapy
- Bateman, Linda, A.S. (Butler University, 1982), C.R.T.T. (1979), Lecturer in Respiratory Therapy
- Bennett, Jene Richard, M.D. (Indiana University, 1940), Director of the South Bend Medical Foundation School of Medical Technology and Assistant Professor of Medical Technology
- Birkmeier, Kristen E., B.S. (University of St. Louis, 1971), R.P.T. (1971), Supervisor of Pediatric Physical Therapy, Riley Children's Hospital and Adjunct Instructor in Physical Therapy
- Christoph, Chuck, B.S. (Indiana University, 1981), R.R.T. (1978), Clinical Instructor, Department of Respiratory Therapy, University Hospital, Indianapolis
- Doyle, Patrick, A.S. (Indiana University, 1976), R.R.T. (1979), Lecturer in Respiratory Therapy
- Feinberg, Judy R., M.S. (Butler University, 1973), Adjunct Assistant Professor of Occupational Therapy
- Feist, Gary J., A.D. (Sams Technical Institute, 1967), Lecturer in Respiratory Therapy
- Foster, John A., M.D. (Indiana University, 1962), Adjunct Assistant Professor of Medical Technology (IU Fort Wayne)
- Gaither, Connie B., A.S. (Indiana University, 1979), R.R.T. (1980), Lecturer in Respiratory Therapy
- Garrett, Steve, A.S. (Indiana University, 1974), R.R.T. (1980), Lecturer in Respiratory Therapy

- Getch, Karen Sue, A.S. (Indiana University, 1975), R.T.(R), Lecturer in Radiologic Technology, Clinical Instructor, Methodist Hospital of Gary, Inc.
- Graber, Carl, M.A. (Ball State, 1974), R.R.T. (1980), Instructor in Respiratory Therapy
- Griswold, Patricia A., M.S. (Butler University, 1971), Adjunct Assistant Professor of Occupational Therapy
- Harris, Danita, B.S. (Cabrini College, 1970), Instructor in Respiratory Therapy
- Hoyermann, Carol A., B.S. (Tufts University, 1959), Assistant Director Physical Therapy Services, Indiana University Hospitals and Adjunct Instructor Physical Therapy
- Kisling, Jeffrey A., A.S. (Indiana University, 1975), R.R.T. (1976), Lecturer in Respiratory Therapy
- Krejci, Christine, B.S. (Indiana University, 1983), R.R.T. (1968), Clinical Instructor and Lecturer in Respiratory Therapy
- Lee, Kathleen, B.S. (Muskingum College, 1976), R.R.T. (1982), Instructor in Respiratory Therapy
- Lewis, Sidney, B.A. (Indiana University, 1972), N.M.T. (1974), Instructor in Radiologic Sciences
- McGraw, Michael L., M.A. (University of Iowa, 1977), Director, Physical Therapy Services, Indiana University Hospitals and Adjunct Assistant Professor of Physical Therapy, part time
- Moran, Dennis, B.S. (Indiana University, 1976), N.M.T. (1976), Instructor in Radiologic Sciences
- Mosqueda, Joseph, A.S. (Indiana University, 1975), R.T. (R), Lecturer in Radiologic Technology, Clinical Instructor, St. Margaret Hospital, Hammond
- Murphy, John, B.S. (Indiana University, 1979), R.R.T. (1980), Adjunct Instructor in Respiratory Therapy
- Peiffer, Geraldine Marie, M.D. (Loyola University, Stritch School of Medicine, 1949), Medical Director, Respiratory Therapy Program, Director, Department of Anesthesiology, St. Margaret Hospital, Hammond
- Plowman, Tracy Edan, A.S. (Indiana University, 1977), R.T.(R), Lecturer in Radiologic Technology, Clinical Instructor, Methodist Hospital of Gary
- Riteris, Jeanne, M.A. (Marquette University, 1962), Education Coordinator, Indiana University Physical Therapy Services and Adjunct Instructor in Physical Therapy
- Roller, Douglas R., B.S. (Indiana University, 1976), N.M.T. (1976), Instructor in Radiologic Sciences
- Russell, Brian, Adjunct Lecturer in Respiratory Therapy
- Sarno, Sara, B.S. (University of Rochester, 1961), C.N.M.T., N.M.T. (1978), Instructor in Radiologic Sciences
- Schmelter, Dana, M.P.A. (Indiana University, 1981), Adjunct Lecturer in Medical Record Technology (IUN)
- Schmidl, Karen Joy, A.S. (Indiana University, 1973), R.T.(R), Lecturer in Radiologic Technology, Clinical Instructor, St. Catherine Hospital, East Chicago
- Schraffenberger, Lou Ann, B.S. (University of Illinois Medical Center, 1974), Adjunct Lecturer in Medical Record Technology (IUN)
- Siegel, Stanley J., Ph.D. (University of Massachusetts, 1966), Adjunct Lecturer in Medical Laboratory Technology (IUN)
- Smith, Donald, M.B.A. (University of Chicago, 1963), Adjunct Assistant Professor of Allied Health Sciences
- Susula, Karen R., B.S. (University of Illinois Medical Center, 1974), Adjunct Lecturer in Medical Record Technology
- Whitlock, Diane, M.S. (Purdue University, 1982), Education Coordinator, Parkview Hospital, Ft. Wayne, Adjunct Instructor Medical Technology
- Wilson, Sue A., A.S. (Indiana University, 1975), R.T.(R), Lecturer in Radiologic Technology, Clinical Instructor, St. Margaret Hospital, Hammond

# 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 50 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 School of Library and Information Science, 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 and Placement Support Services, and 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 of Students office.

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. IU 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 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.

*Requests for deviation* from department, program, or school requirements may be granted only by written approval from the respective chairperson, director, or dean (or their respective administrative representative). Disposition at each level is final.

## Fees

Credit hour fees listed here were approved at the June 1983 meeting of the Trustees of Indiana University. Credit Hour and special fees are subject to change by action of the Trustees. See the campus *Schedule of Classes* for the most recent fees.

<b>BLOOMINGTON CAMPUS</b>	<b>Indiana resident</b>	<b>Nonresident</b>
Undergraduate <sup>1</sup>	\$47.25/credit hour	\$133.25/credit hour
Graduate <sup>1</sup>	\$61.50/credit hour	\$168.50/credit hour
Professional:		
School of Law	\$61.50/credit hour	\$168.50/credit hour
School of Optometry	\$61.50/credit hour	\$168.50/credit hour

<sup>1</sup> Includes Continuing Studies credit courses.

Medical (combined degree)	\$61.50/credit hour	\$168.50/credit hour
Medical (flat fee)	\$1600/semester	\$3850/semester
Thesis enrollment	\$61.50/semester	\$168.50/semester
Auditing (no credit)	applicable credit hour rate	
<b>Special fees (in addition to basic fees)</b>		
Application for admission		
United States	\$20	
Foreign	\$30	
Student Activity Fee <sup>2</sup>	\$4 or \$8.25 per semester	
	\$2 or \$4 per summer session	
Applied music (majors) <sup>3</sup>	\$75 per semester	
Applied music (nonmajors) <sup>3</sup>	\$75 per course	
Education early experience <sup>4</sup>	\$19 per course	
Education placement service	\$8	
Business placement service	\$20	
Education practicum <sup>5</sup>	\$36 per course	
Education student teaching <sup>6</sup>	\$70 per course	
Late enrollment or re-enrollment <sup>7</sup>	(see footnote)	
Late program change	\$15	
Special exam	\$5 to \$15	
Laboratory <sup>8</sup>	\$15 per course	

<sup>2</sup> Students enrolled in 4 or more credit hours during the semester will be assessed a mandatory fee of \$8.25. Students enrolled in 3 or fewer credit hours during the semester will be assessed a mandatory fee of \$4. Students enrolled in 4 or more credit hours per summer session will be assessed a mandatory fee of \$4. Students enrolled in 3 or fewer credit hours per summer session will be assessed a mandatory fee of \$2.

<sup>3</sup> Persons desiring applied music who are not regularly working toward a degree will be charged \$250 per applied music course.

<sup>4</sup> Students enrolled in any of the following Education courses will be assessed a \$19 fee per course:

Elementary Licenses

Early Childhood: P249, E339, E335, E336, E337

Kindergarten/Primary: P249, E339, E325, E341, N343

Elementary: P251, E339, E325, E341, E343

Junior High/Middle School: P252, M312, M461

Secondary: P253, M313 or M130, M462

All Grades: P254, M313, M462, or M130 or M336

Special Education: E339, K380, E343

Special Endorsements:

Kindergarten: E336

Junior/Middle: M461

Bilingual/bicultural: L441

Ethnic/cultural: T410

Coaching: HPER P450

Special Education: K380

Family Life: HMEC H453

Driver & Traffic Safety Ed: HPER S456

Reading: X400

<sup>5</sup> Students enrolled in EDUC M470 Practicum and/or EDUA M550 Practicum (variable title courses) will be assessed a \$36 fee per course per semester. The practicum fee of \$36 is also assessed for the following courses: G547, G647, K495X, P310, P311, P410, P411, P518, P519, P591, P592, P595, P596, P691, P692, P694, P699, R473, X425.

<sup>6</sup> Students enrolled in Education courses M423, M424, M425, M451, M480, M482, M486, and/or M363 will be assessed \$70 per course per semester.

<sup>7</sup> A late registration fee is assessed to all students registering for classes after the scheduled registration periods for continuing and new students.

<sup>8</sup> Students, except at IUPUI, who are enrolled in the following laboratory courses will be assessed a laboratory fee of \$15 per course per semester:

Biology: L100, L105, Q201, B205, M315, Z316, B369, & Z450

Chemistry: C121, C122, C125, C126, C343, & C344

Medical Science: A215 and P215

Optometry: V111, V121, V131, V151, V153, V154, V155, V201, V210, V211, V221, V226, V227, V232, V251, V252, V254, V255, V256, V321, V322, V412, V414, V416, V417, V431, V432, V443, V444, V453, V454, V467, V468, V545, V550, V533, V556, V513, V554, V557, V655, V657, V658, V659

Physics: T100, P101, P201, P202, P221, & P222

Recital fee (Music) <sup>9</sup>	\$15 to \$45	
Health Service fee (optional) <sup>10</sup>	\$20 to \$40 per semester	
	\$9 for 1st summer session	
	\$11 for 2nd summer session	
Nursing clinical	\$7/contact hour	
HPER courses: Billiards, bowling, golf, and horsemanship	(Payment made to Billiard Parlor, Bowling Alley, Golf Course, or Academy for use of facilities)	
Microscope fee (Medical Science courses only)	\$30 per semester	
Deposits (to cover loss or damage):		
Band	\$10	
Singing Hoosiers	\$10	
Chemistry (for G343, C344, S343, and S344 courses only)	\$25	
Lockers (Ballantine, Law, Music, and Woodburn buildings)	\$5 deposit, \$1 to \$1.50 rent deducted per semester	
Rentals		
Locker, HPER building	\$7 per semester	
	\$6 for combined summer sessions	
Locker, Business School	\$7 per semester	
	\$12 per 12 months	
Locker, SPEA	\$7 per semester	
	\$12 per 12 months	
Music instrument (for nonmusic majors)	\$30 per semester	
Practice room (limit to 1 hour per day)	\$15 per semester	
(above practice room rental not charged if applied music fee is paid)		
Independent Study (Correspondence)		
Undergraduate courses		
(residents and nonresidents)	campus resident rate	
High school level courses	\$33 per half unit course	
Special Credit and Credit by Examination: Regular credit hour fees apply, except the fee is waived for University Division freshmen during the first two regular semesters following their matriculation at Indiana University, and is reduced to \$10 per credit hour for undergraduate transfer students during the first regular semester following their matriculation at Indiana University.		
Transcripts	\$3	
<b>INDIANAPOLIS CAMPUS</b>		
Undergraduate	\$43.25/credit hour	\$114.25/credit hour
Graduate and professional	\$61.50/credit hour	\$168.50/credit hour
Medical (flat fee)	\$1600/semester	\$3850/semester
Dentistry (flat fee)	\$1500/semester	\$3200/semester
Thesis enrollment	\$61.50/semester	\$168.50/semester
Auditing (no credit)	applicable credit hour rate	
<b>Special fees (in addition to basic fees)</b>		
Application for admission		
United States	\$20	
Foreign	\$30	
Laboratory	\$7/contact hour	
Nursing clinical	\$7/contact hour	
Late program change	\$15	
Activity	\$2.50/semester	

<sup>9</sup> Recital fee in music for one-page program is \$15, for two-page program \$25. The fee for recording the recital is an additional \$20.

<sup>10</sup> Students enrolled in 7 or more credit hours per semester will be assessed \$20. Students enrolled in 6 or less credit hours per semester will be assessed \$40. Summer session fees are as listed per session.

Late enrollment or re-enrollment <sup>11</sup>	\$15
First week-third week of classes	\$10
Deferred fee service charge	\$7 per semester
Locker rental fee	\$6 per summer
HELP Programs <sup>12</sup>	\$25 to \$120 per course

Fee Refund Schedule

Time of Withdrawal	Refund
<b>9 through 16 weeks</b>	
During 1st week of classes or through Drop/Add Day	100%
During 2nd week of classes	75%
During 3rd week of classes	50%
During 4th week of classes	25%
During 5th week of classes and thereafter	None
<b>5 through 8 weeks</b>	
During 1st week of classes or through Drop/Add Day	100%
During 2nd week of classes	50%
During 3rd week of classes and thereafter	None
<b>2 through 4 weeks</b>	
During the 1st and 2nd day or through Drop/Add Day	100%
During 3rd and 4th day of classes	50%
During 5th day of classes and thereafter	None
<b>1 week or less</b>	
During 1st day of classes	100%
During 2nd day of classes	50%
During 3rd day of classes and thereafter	None

The refund policy applies to credit hour fees and all course-related mandatory fees, wherein the student is required to pay a specific fee.

**Procedure** Students must apply to the Office of the Registrar and the Office of the Bursar 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.

<sup>11</sup> At Indianapolis, a \$15 late fee will be in effect upon conclusion of registration through the end of the third week of classes. Late registration after the third week of classes will be assessed according to the following graduated schedule:  
Week in which the registration is processed: Week 4—\$25 Week 5—\$35 Week 6—\$45.  
No registrations will be accepted after the sixth week of classes without the approval of the Dean of Faculties.

<sup>12</sup> Courses X011, X012, X013, and X014 are \$25.  
Courses X022 and X023 are \$120.



# Fee Reductions and Financial Aid

**Scholarships and Financial Aid** Students can find information about loans and part-time employment through the Office of Student 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** The following statements describe the privilege of fee courtesy extended to full-time University faculty and staff by the Trustees. For a full policy statement, please refer to personnel policy No. D-21, revised May 7, 1982, available in the personnel office of each campus.

Fees for a full-time appointed employee (100% F.T.E.) who is appointed within the first week of a semester or summer sessions and enrolled in 1-6 credit hours will be assessed at one-half the resident credit hour rate at the campus where the employee enrolls, for the actual number of hours taken. Fees for credit hours in excess of six (6) in a semester or summer sessions will be assessed at full resident rate on that campus.

The spouse of a full-time appointed (100% F.T.E.) employee appointed within the first week of a semester or summer sessions will be entitled to a fee courtesy consisting of a credit of one-half of the resident undergraduate fee rate at the campus where the spouse enrolls for each credit hour up to the maximum of three (3) credit hours per semester or summer sessions. This credit will be applied against the full fees of the student at the appropriate resident or nonresident rate.

Dependent children of full-time appointed faculty and staff employees appointed within the first week of a semester or summer sessions will be entitled to a fee courtesy (effective with the fall term 1982) consisting of a credit on one-half of the resident undergraduate fee rate at the campus where the child enrolls. Dependent children shall be defined as all legally dependent children of employees including stepchildren, children who have employees as their legal guardians, and children of retired employees eligible for group life insurance benefits and of disabled employees receiving long-term disability benefits.

*The fee courtesy for dependent children will be granted only to students registered at Indiana University in a curriculum leading to a first baccalaureate or associate degree, and only for the number of semester hours required to complete the curriculum in which the student is enrolled. This fee courtesy shall not apply for graduate or post-baccalaureate professional study.*

To receive fee courtesy for dependent children, the full-time employee will fill out an application "Request for Fee Courtesy — Dependent Children," available from the personnel office of each campus, and return the completed form to the personnel office *prior to registration* for verification of employment. If this application has not been approved and processed prior to registration, the student will be required to pay full fees and then will be issued a refund if the application is approved.

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

Undergraduate Benefits	Fall & Spring Semesters	Summer I	IUPUI Summer II	Bloomington Summer II
full	12 or more	4	4	6
3/4	9-11	3	3	4-5
1/2	6-8	2	2	3
tuition only	fewer than 6	1	1	1-2
<b>Graduate Benefits</b>				
full	9 or more	4	4	5
3/4	7-8	3	3	4
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 coursework 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 preregistration 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 coursework 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 non-residents 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 administered 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 of 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 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.

INDIANA UNIVERSITY  
Bloomington, Indiana 47401

University Bulletin—Entered at the Post Office at  
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