

INDIANA UNIVERSITY BULLETIN 1991-1993

SCHOOL OF
ALLIED HEALTH
SCIENCES



Indiana
University

**We Are
One University
With Eight
Front
Doors**



When you become a student at Indiana University, you join an academic community internationally known for the excellence and diversity of its programs. Indiana University is one of the nation's oldest and largest state universities, with eight campuses serving more than 92,000 students. IU also offers courses through facilities at Columbus, Elkhart, and many other sites.

Indiana University Campuses

Indiana University Bloomington

Indiana University–Purdue University at
Indianapolis

Indiana University at South Bend

Indiana University Northwest (Gary)

Indiana University at Kokomo

Indiana University Southeast (New Albany)

Indiana University East (Richmond)

Indiana University–Purdue University at Fort Wayne

Indiana University Bulletin 1991/93

School of Allied Health Sciences

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Table of Contents

Directory

1 Indiana University	
1 Indiana University-Purdue University at Indianapolis	
2 Indiana University at Kokomo	
2 Indiana University-Purdue University at Fort Wayne	
3 Indiana University Northwest at Gary	
3 Indiana University at South Bend	
4 Indiana University Bloomington	
4 Indiana University Southeast at New Albany	
5 Indiana University East at Richmond	
6 School of Allied Health Sciences	
6 Purpose	
6 Philosophy	
6 Mission	
7 History of Current Degree Programs	
7 Accreditation	
7 Preadmission Status	
8 Change of Educational Objective for Preprofessional Students	
8 Admission Policies	
9 Admission Procedures	
9 Transfer Credit	
9 Degree Requirements	
10 General Requirements	
10 General-Education Requirements	
10 Professional Program Requirements	
10 Credentials/Licensure Required to Practice	
10 Academic Regulations	
12 Academic Policies	
13 Honors	
14 Honors Program	
14 Student Rights and Responsibilities	
15 Allied Health Alumni Association	
16 Cardiopulmonary Sciences	
16 Cardiovascular Technology	
16 Certificate in Non-invasive Cardiovascular Technology	
16 IUPUI	
17 Cardiovascular Perfusion	
18 Bachelor of Science in Perfusion Technology	
18 IUPUI	
18 Emergency Medical Services	
19 Associate of Science in Paramedic Sciences	
19 IUPUI	
19 Respiratory Therapy	
20 Associate of Science in Respiratory Therapy	
20 IUPUI	
21 IUN	
23 Bachelor of Science in Respiratory Therapy	
23 IUPUI	
25 Course Descriptions	
28 Clinical Laboratory Sciences	
28 Histology	
28 Certificate in Histologic Technology	

28 IUN	
29 Phlebotomy	
30 Certificate in Phlebotomy	
30 IUN	
31 Medical Laboratory Technology	
31 Associate of Science in Medical Laboratory Technology	
31 IUE	
31 IUN	
33 Medical Technology	
33 Bachelor of Science in Medical Technology	
33 IUSB	
33 IUE	
33 IUSE	
33 IUPUI	
36 IPFW	
37 IUK	
39 IUN	
41 Course Descriptions	
46 Cytotechnology	
46 Bachelor of Science in Cytotechnology	
46 IUPUI	
48 Course Descriptions	
50 Health Information Management	
50 Health Information Technology	
50 Associate of Science in Medical Record Technology	
50 IUK	
50 IPFW	
52 IUN	
53 Medical Record Administration	
54 Bachelor of Science in Medical Record Administration	
54 IUPUI	
57 Course Descriptions	
59 Occupational Therapy	
59 Associate of Science in Occupational Therapy Technology	
59 IUPUI	
59 Bachelor of Science in Occupational Therapy	
59 IUPUI	
63 Master of Science in Occupational Therapy	
63 IUPUI	
64 Course Descriptions	
67 Physical Therapy	
67 Bachelor of Science in Physical Therapy	
67 IUPUI	
69 Master of Science in Physical Therapy	
69 IUPUI	
70 Course Descriptions	
71 Radiation Therapy	
71 Associate of Science in Radiation Therapy	
71 IUN	
71 Bachelor of Science in Radiation Therapy	
71 IUPUI	
74 Course Descriptions	
76 Radiologic Sciences	
76 Radiography	
76 Associate of Science in Radiography	
76 IUK	

76	IUPUI	88	Bachelor of Science in Radiologic Sciences
79	IPFW	88	IUN
80	IUN	88	Course Descriptions
82	IUSB	91	Faculty, 1991-93
83	Medical Imaging Technology	95	Indiana University General Information
83	Bachelor of Science in Medical Imaging Technology	95	General Policies
83	IUPUI	95	Undergraduate Admissions Policy
86	Nuclear Medicine Technology	96	Transfer to Other IU Campuses
86	Bachelor of Science in Nuclear Medicine Technology	97	Rules Determining Resident and Nonresident Status
86	IUPUI	100	Fees

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1700 Mishawaka Avenue
P.O. Box 7111
South Bend, Indiana 46634

Campus Liaison, Theodore Hengesbach, Ph.D., (219) 237-4260
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Indiana University

Founded in 1820, Indiana University is one of the 15 largest universities in the nation. With a faculty of 3,500, the university is internationally known for the excellence and diversity of its programs. To meet the needs of more than 92,000 students, the university offers 5,000 courses of instruction in more than 100 departments. The university attracts students from all 50 states and around the world.

Indiana University consists of eight campuses: Indiana University Bloomington, Indiana University–Purdue University at Indianapolis, Indiana University Northwest (Gary), Indiana University at South Bend, Indiana University–Purdue University at Fort Wayne, Indiana University at Kokomo, Indiana University Southeast (New Albany), and Indiana University East (Richmond). IU also offers courses through facilities at Columbus, Elkhart, and many other sites. More than 80 percent of Indiana's population lives within a 50-mile radius of a IU campus.

The regional campuses offer students and other individuals the educational and informational resources of a large university, with the additional advantages of being able to pursue academic studies in their home communities or nearby, to attend college classes while working full time, to upgrade professional and technical skills, and to pursue intellectual and cultural interests.

The School of Allied Health Sciences offers educational programs on the following five of the university's eight campuses:

Indiana University–Purdue University at Indianapolis
Indiana University–Purdue University at Fort Wayne
Indiana University at South Bend
Indiana University at Kokomo
Indiana University Northwest at Gary

Indiana University–Purdue University at Indianapolis

Indiana University–Purdue University at Indianapolis is an innovative urban campus offering 167 degree programs in more than 200 study fields to 27,500 students. Indiana University and Purdue University programs and facilities merged at Indianapolis in 1969.

The campus continues to experience growth in both the range of its academic offerings and its physical facilities. IUPUI also offers courses at the Columbus Center at Columbus, Indiana.

IUPUI is the home of the IU School of Medicine, the second largest medical school in the United States. There are more than 800,000 patient visits annually to the Medical Center's five teaching hospitals and more than 150 clinics.

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.

As an urban university, IUPUI has taken advantage of flexible scheduling of classes. Classes are offered days, evenings, and weekends both on the campus and in shopping centers around the city. Almost 1,300 faculty plus hundreds of professionals from the metropolitan area teach courses, bringing a rich blend of scholarly demands and practicality to courses.

Indianapolis, in addition to being the capital city and cultural center of the state of Indiana, is one of the major economic, cultural, and sports centers of the Midwest. With a population of more than 700,000, the city offers numerous museums, cultural and entertainment events, and national and international athletic competitions.

Information and Applications

For an application to Indiana University–Purdue University at Indianapolis and other information about the campus, contact:

Office of Admissions
Cavanaugh Hall 129
425 University Boulevard
Indianapolis, Indiana 46202
Telephone (317) 274-4591

For an application to an allied health program and additional information about allied health programs offered at Indiana University–Purdue University at Indianapolis, contact:

School of Allied Health Sciences
Nancy A. Fitzgerald
Pre-Allied Health Adviser
Indiana University Medical Center
Coleman Hall 120
1140 West Michigan Street
Indianapolis, Indiana 46202-5119
Telephone (317) 274-4702

For financial aid available at Indiana University–Purdue University at Indianapolis, contact:

Office of Financial Aid
Cavanaugh Hall 103
425 University Boulevard
Indianapolis, Indiana 46202
Telephone (317) 274-4162

Students interested in taking prerequisites at IUPUI-Columbus Center should contact:
Vickie Welsh-Huston
Academic Counselor
IUPUI Columbus
4601 Central Avenue
Columbus, Indiana 47203
Telephone (812) 372-8266

Indiana University at Kokomo

Since its establishment in 1945, Indiana University at Kokomo has developed as a regional university for commuter students that serves an 11-county area in north central Indiana. IUK offers programs leading to the associate, baccalaureate, and master's degrees, and a wide variety of continuing education activities.

IUK's heterogeneous student group numbers approximately 3,600 full-time and part-time students. Two-thirds of the classes at IUK have fewer than 30 students, which ensures significant individual attention. The Kokomo campus also offers a broad range of student support services, including career development and placement assistance, interest testing, tutoring, and child care. In addition, concerts, lectures, and athletic events enhance student life at IUK. Course schedules and student services are designed to meet the needs of both traditional and nontraditional students.

The campus is located on a 57-acre site in the southern part of the city of Kokomo. IUK facilities include classroom buildings, faculty research areas, a library, a community auditorium, and an observatory. The campus' newest addition, the Kelley Student Center, contains student services offices, lounge and cafeteria facilities, classrooms, laboratories, faculty offices, a child care center, and a bookstore.

Information and Applications

For an application to Indiana University at Kokomo and other information about the campus, contact:
Office of Admissions
2300 South Washington Street
P.O. Box 9003
Kokomo, Indiana 46904-9003
Telephone (317) 455-9389

For an application to an allied health program and additional information about allied health programs offered at Indiana University at Kokomo, contact:
Dr. Robert Roales
Chairman, Biological and Physical Sciences
204 Main
P.O. Box 9003
2300 South Washington Street
Kokomo, Indiana 46904-9003
Telephone (317) 455-9371

For financial aid available at Indiana University at Kokomo, contact:
Office of Financial Aid
2300 E. Washington Street
P.O. Box 9003
Kokomo, Indiana 46904-9003
Telephone (317) 455-9359

Indiana University- Purdue University at Fort Wayne

Because Indiana University-Purdue University at Fort Wayne combines two universities in one, it provides an unusually comprehensive range of undergraduate programs. IPFW's urban location allows university programs to offer many opportunities for practical experience and projects that tap community resources.

Since classes are relatively small, faculty have time for their students, in and out of class. Faculty members at IPFW are known for their dedication to teaching as well as for their professional expertise.

At IPFW, recent high school graduates mingle with older students who want to enrich their lives or take new career paths. This diverse group of students participate together in campus activities that include lecture and film series, concerts and plays, intramural and intercollegiate sports, fraternal organizations, and special interest groups.

IPFW prizes its rich mix of personalities and cultures, and organizes special services for minority, international, and physically handicapped students. Other services include financial aid; individualized academic advising; well-equipped modern classrooms, laboratories, and libraries; career and placement counseling; and child care.

Information and Applications

For an application to Indiana University-Purdue University at Fort Wayne and other information about the campus, contact:

Office of Admissions
Ketter Hall 102
2101 Coliseum Blvd. East
Fort Wayne, Indiana 46805
Telephone (219) 481-6000

For an application to an allied health program and additional information about allied programs offered at Indiana University–Purdue University at Fort Wayne, contact:
Dr. Peter Zonakis
Dean, School of Health Sciences
Neff Hall 150B
2101 Coliseum Blvd. East
Fort Wayne, Indiana 46805
Telephone (219) 481-6837

For financial aid available at Indiana University–Purdue University at Fort Wayne, contact:
Office of Financial Aid
Ketter Hall 109
2101 Coliseum Blvd. East
Fort Wayne, Indiana 46805
Telephone (219) 481-6246

Indiana University Northwest

Indiana University Northwest in Gary serves the highly diverse area of northwest Indiana, which includes urban, rural, industrial, and metropolitan characteristics. To meet the educational needs of this complex region, IUN offers a range of degree programs at the associate, baccalaureate, and master's levels, as well as certificate and post-baccalaureate programs. IUN's broadly conceived educational and cultural events enrich the quality of life in northwest Indiana.

The IUN enrollment of 4,800 includes more than 600 students who are pursuing graduate studies. The rich economic, cultural, and racial diversity of northwestern Indiana is found on the campus. The student body is composed of both traditional students and students who have been away from school for a number of years and who are often working on a degree while continuing to earn a living. This mixture enhances the educational experiences for all students at IUN. The campus offers a full range of student support services and flexible scheduling to meet the needs of its diverse student body. In addition, many cultural, social, and special interest activities on campus contribute to student life at IU Northwest.

Information and Applications

For an application to Indiana University Northwest at Gary and other information about the campus, contact:

Office of Admissions
Hawthorn Hall 100A
3400 Broadway
Gary, Indiana 46408
Telephone (219) 980-6821

For an application to an allied health program and additional information about allied programs offered at Indiana University Northwest, contact:
Division of Allied Health Sciences
Dr. Robert Moon, Acting Chairperson
Hawthorn Hall 217
3400 Broadway
Gary, Indiana 46408
Telephone (219) 980-6542

For financial aid available at Indiana University Northwest contact:
Office of Financial Aid
Hawthorn Hall 101D
3400 Broadway
Gary, Indiana 46408
Telephone (219) 980-6777

Indiana University at South Bend

Centrally located in the Michiana area, Indiana University at South Bend offers 77 degree programs for its more than 7,000 students. IUSB responds to today's college students by designing its academic programs, schedules, and support services to meet the needs of a diverse student body that includes many adult and part-time students as well as traditional students.

The campus lists teaching as its highest priority, and a student/faculty ratio of 20 to 1 ensures that students receive individual attention. More than 90 percent of the campus' full-time faculty have earned the highest degrees in their disciplines. IUSB offers a full range of student support services, from career and placement services to child care and a pre-school. The many campus activities include lectures, films, plays, special interest groups, and athletics. IUSB's music and theater programs are important contributors to the cultural life of the Michiana region.

Facilities at IUSB house a full university program: laboratories, lecture halls, study areas, theaters, a cafeteria, and lounges and recreational centers. Computer facilities are available to all students. The academic heart of the campus is the Franklin D. Schurz Library, which contains more than 370,000 volumes and several special collections.

Information and Applications

For an application to Indiana University at South Bend and other information about the campus, contact:

Office of Admissions
Administrative Building 237
1700 Mishawaka Avenue
P.O. Box 7111
South Bend, Indiana 46634
Telephone (219) 237-4455

For an application to an allied health program and additional information about allied programs offered at Indiana University at South Bend, contact:

Dr. Ted Hengesbach
Director, Extended Programs
Administrative Building 101
1700 Mishawaka Avenue
P.O. Box 7111
South Bend, Indiana 46634
Telephone (219) 237-4260

For financial aid available at Indiana University South Bend contact:

Office of Financial Aid
Administrative Building 159
1700 Mishawaka Avenue
P.O. Box 7111
South Bend, Indiana 46634
Telephone (219) 237-4490

Indiana University Bloomington

Indiana University Bloomington is the university's primary residential campus with more than 35,000 students pursuing academic degrees. An outstanding faculty that numbers almost 1,500 has developed a reputation for research discoveries that have broadened knowledge in many areas.

Located in the rolling hills of southern Indiana, IU Bloomington is known for the wooded beauty of its campus. The city of Bloomington, with a population of 60,000, has been selected by Rand McNally as one of the eight most desirable places to live in the nation based on economy, personal safety, climate, housing, services, and leisure activities.

Students from all 50 states and 108 foreign countries study on the Bloomington campus. More than 5,000 course offerings provide a wealth of academic opportunity, and a wide array of lectures and seminars complement classroom, laboratory, and studio activity. The University Theatre, the Art Museum, and the Musical Arts Center serve as major resources for university programs in the performing and fine arts.

The resources of the University Libraries, with nearly 20 million holdings, are available to students on all campuses of the university and to all citizens of Indiana.

Information and Applications

While professional programs in allied health are not offered on the Bloomington campus, prerequisites courses are available. Students who want to take prerequisites toward an allied health degree on the Bloomington campus should contact:

John Simpson
Director, Health Professions &
Pre-Law Information Center
Maxwell 021
Bloomington, Indiana 47405
Telephone (812) 855-9766

Indiana University Southeast

Indiana University Southeast is a modern commuter campus at New Albany in the metropolitan Louisville area. Its location permits students to benefit from many cultural, recreational, and employment opportunities.

IU Southeast offers 39 degree programs, including associate, bachelor's, and master's degrees, for its student body of 5,600. Approximately half of the IU Southeast students attend full time, while others take advantage of the convenience and flexibility of IUS programs to take courses related to their jobs, to combine work or family responsibilities with part-time study for a degree, or to take special courses of personal interest.

More than 85 percent of the full-time faculty at IU Southeast hold the highest degrees attainable in their fields. The average class size is 23 students.

Students can participate in more than 50 organizations, including fraternities and sororities as well as intercollegiate and intramural sports programs. With concerts, lectures, films, and theatrical productions, IUS offers students a rich cultural life. An extensive range of student support services includes the Career Services and Placement Office and the Student Development Center.

Information and Applications

While professional programs in allied health are not offered on the Southeast campus, prerequisite courses are available. Students who want to take prerequisites toward an allied health degree on the Southeast (New

Albany) campus should contact:
 Dr. Galen Renwick
 Department of Natural Sciences, LS 206
 Indiana University Southeast
 4201 Grant Line Road
 New Albany, Indiana 47150
 Telephone: (812) 941-2375

Indiana University East

Indiana University East provides educational opportunities for east central Indiana, stressing accessible education, so area residents can achieve their personal and professional goals while living at home. The campus offers flexible schedules with day, evening, and weekend classes to allow students to take courses while maintaining family and job responsibilities. Ninety percent of the students at IUE work full or part time, and seventy-two percent attend the university part time.

The faculty at IU East is recognized for distinguished teaching, and an average class size of 19 makes frequent student/faculty interaction possible. Sixty-five percent of the full-time faculty members hold the highest degrees in their fields.

IU East stresses the importance of liberal education, career education, and lifelong learning in its varied offerings, which include 24 degree programs. The campus offers a full range of student support services for its more than 2,000 students. Career and academic counseling as well as academic support services are available through the IU East Student Development Center.

Information and Applications

While professional programs in allied health are not offered on the Southeast campus, prerequisite courses are available. Students who want to take prerequisites toward an allied health degree on the East (Richmond) campus should contact:

Dr. Joan Lafuze
 Assistant Professor
 Department of Biology-200A
 Indiana University East
 2325 Chester Blvd.
 Richmond, Indiana 47374
 Telephone (317) 973-8246

School of Allied Health Sciences

Purpose

The Indiana University School of Allied Health Sciences is concerned with providing allied health education within Indiana University. The school 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 school 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 lifelong habits of scholarship and service; (2) advancement of knowledge through research; (3) continuing education programs 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.

Philosophy

The School of Allied Health Sciences of Indiana University is committed to quality preparation of allied health personnel who have a concern for the well-being and welfare of the people they serve. The school integrates teaching, research, and service through the efforts of its faculty and students. This integration results in quality programs that have a significant, positive impact on health care.

Each program offered in the school provides the allied health student with an opportunity to develop expertise, scientific knowledge, and professional attitudes that 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 follows a coordinated and logical interdisciplinary process based on a core body of knowledge that 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 encourage the coordination of health planning, health services, disease prevention, and health promotion.

Education is perceived by the faculty as an evolving and continuing process resulting in an increased ability to think, reason, and judge. This leads to a satisfying and self-disciplined life. Effective education allows for individual difference 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 lifelong self-evaluation and self-education.

Faculty of the School of Allied Health Sciences are fully qualified in their fields of expertise and hold appropriate degrees and certification or licensure. In implementing the objectives of the school, they strive to keep their own professional and teaching competencies current. The faculty are committed to preparing uniquely qualified personnel who must meet the challenges of the complex and ever-changing health care needs of society.

The graduates of the school should be prepared to apply the knowledge they have attained in their selected discipline. Graduates have a responsibility to maintain competency through formal and informal continuing education and to contribute to new knowledge in their discipline. Graduates have legal, moral, and ethical responsibilities to their employers, clients, patients, and the public and are expected to participate in community and professional activities.

This statement of philosophy forms the central core of values from which the school's purpose, mission, objectives, policies, and procedures are derived.

Mission

The School of Allied Health Sciences, an integral part of the Indiana University School of Medicine, has a long tradition of academic excellence. The school'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 school seeks to develop and maintain a scholarly and competent faculty capable of achieving the following objectives:

1. To provide undergraduate and graduate

degree programs that offer education related to the provision of and the management of health services by the various allied health professions.

2. To contribute to the advancement of knowledge through research.
3. To provide continuing education for allied health practitioners wishing to further their career development.
4. To foster the development of lifelong habits of scholarship and service among faculty and students.

History of Current Degree Programs

The School of Allied Health Sciences is the pre-baccalaureate and post-baccalaureate academic, administrative, and fiscal unit of the School of Medicine. Allied health sciences was first established as a division 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 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 that 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. In addition to the baccalaureate degree programs, the division offered associate degree programs in respiratory therapy (1965), radiologic technology (1966), occupational therapy technology (1970), medical laboratory technology (1976), and medical record technology (1973). The latter two degree programs were offered by the division at Indiana University Northwest only. The associate degrees in respiratory therapy and radiologic technology were offered by the division at IU Northwest and the IU Medical Center at Indianapolis.

In 1991 the baccalaureate degree in respiratory therapy was activated, and advanced Master of Science degrees were approved for both occupational therapy and physical therapy on the Indianapolis campus. An associate degree in radiologic technology was approved for the Kokomo and South Bend campuses, and an associate degree in radiation therapy was approved for the Northwest campus. Associate degrees in medical record technology and radiologic technology were activated at the Fort Wayne campus. Existing hospital-based programs in medical technology affiliated with the Kokomo, Fort Wayne, and Northwest campuses were served through the allied health structure.

At the April 1991 meeting of the Board of Trustees of Indiana University, the Division of Allied Health Sciences was approved as a university-wide school. The School of Allied Health Sciences encompasses allied health programming on five of the eight campuses of Indiana University.

The School of Allied Health Sciences is composed of 15 distinct allied health academic degree programs. The school is one of the oldest allied health academic units in the country and has provided leadership in allied health services, as well as research and education, to the citizens of Indiana, the region, and the nation for 30 years.

Approximately 20 years ago, the school 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 organization that represents individual allied health practitioners, allied health educational institutions, and allied health professional societies.

Accreditation

The School 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.

In addition, the programs in cytotechnology, medical laboratory technology, medical record administration, medical record technology, medical technology, nuclear medicine technology, occupational therapy, radiation therapy, radiologic technology, and respiratory therapy are fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association. The Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

Preadmission Status

Enrollment at Indiana University does not guarantee admission to the professional programs offered through the School of Allied Health Sciences. To be eligible for admission to the programs offered by the school, students must adhere to the academic regulations of the academic unit in which they are enrolled and meet school and program preadmission requirements as stipulated in the general-education and program sections of this bulletin. On some campuses a student may be admitted to the School of Allied Health Sciences as a preprofessional student; however, this status in no way influences admittance into a professional program.

Change of Educational Objective for Preprofessional Students

Changing one's educational objective to an allied health program does not guarantee admission to the school 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. Pre-allied health students in University Division, the Undergraduate Education Center, the School of Allied Health Sciences, or other Indiana University schools or divisions must follow that academic unit's procedures for changing the educational objective. All students must meet school and program admission requirements in order to be admitted to a professional program offered through the School of Allied Health Sciences.

Admission Policies

The admission policies of individual programs within the School of Allied Health Sciences comply with the following standards:

Prerequisite Course Work Applicants must complete prerequisite courses at an accredited high school (or by GED equivalent), college, or university. Individual programs determine the specific courses and the minimum grade that must be achieved in any course (see specific program information). The completion of a prerequisite course with a Pass/Fail grade must be approved by each program. Students are eligible to apply 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 beginning date of the professional program. Applicants should read the "Admission Policies" and "Program Description" sections of this bulletin for specific entry-level requirements.

Grade Requirements Without exception, applicants must have a grade point average of at least a 2.0 on 4.0 scale for all completed course work. Some programs have established a minimum grade point average higher than 2.0 on a 4.0 scale. Some programs also use a component of the overall grade point average (for example, math/science grade point average). See specific program information. Only completed course work and the resultant grade point average are evaluated. In evaluating the high school record of applicants to an associate degree program, only academic course work will be used in calculation of the admission grade point average. For course work in progress when an offer of admission is made and for all course work taken following the offer and prior to the official beginning of the program, the applicant must obtain a grade

point average of at least 2.0 on a 4.0 scale each enrollment period. The applicant must also maintain the minimum grade point average as established by the program. The applicant's grade point average will be the major consideration (51 percent or greater) for admission. (See specific program information.)

Repeated Courses Applicants whose grade point average is at least 2.0 on a 4.0 scale and who have repeated courses will have their admission grade point average calculated by using the highest of the two grades earned. This repeat option includes the use of the Indiana University FX option and is applied with the following restrictions: no more than three courses will be deleted, which can total no more than 10 credits; and the grade will be deleted no more than once for a given course. If more than three courses are repeated, the applicant will be consulted prior to the calculation of the admission grade point average to determine which of the repeated courses are to be deleted.

Academic Bankruptcy Applicants whose grade point average is at least 2.0 on a 4.0 scale may petition the program for up to one year of academic bankruptcy based on compelling nonacademic reasons. Academic bankruptcy is for admission purposes only and in no way affects the university's official grade point average. Course work that has been bankrupted for admission purposes cannot be used for the granting of the degree.

Testing Applicants may be required to complete testing as designated by the program.

Interview Applicants may be required to complete a personal interview. The interview may be a component of the admission decision.

Technical Standards For admission to and participation in a school program, applicants must meet nonacademic technical standards that enable students to engage in educational and training activities that do not endanger them or others. School technical standards are mailed to applicants along with the acknowledgement of the receipt of the application. Program-specific technical standards, if applicable, are distributed by the program prior to selection of the class.

Preference to In-state Residents Preference is given to applicants who are Indiana residents. Preference is also given to applicants who complete the majority of applicable course work at a college or university in Indiana.

Nondiscrimination Policy Indiana University is committed to equal opportunity for all

persons and provides its services without regard to gender, age, race, religion, ethnic origin, sexual orientation, veteran status, or handicap. The university director of affirmative action is responsible for carrying out the affirmative action program for units in central administration. In addition, there is an affirmative action officer on each campus who develops and administers the program there.

Policy Changes Policies concerning the minimum grade point average for admission consideration are subject to change. Changes become effective the semester following the announcement of the decision to the university counselors and other constituencies. Changes in prerequisite courses or the minimum grade required in a prerequisite course will be applied as follows:

1. Applicants who have taken the course prior to the change and who meet the old grade requirement will have satisfactorily completed the requirement.
2. Applicants who have taken the course prior to the change and who do not meet the old grade requirement must complete the course under the new requirements.
3. Applicants enrolled in the course at the time of the change will be permitted to meet the old course requirements.
4. Applicants who have not taken the course prior to the change will have to meet the new grade requirements.

Admission Procedures

1. In addition to the general admission requirements stated above, individuals must read the program-specific sections in this bulletin for additional admission requirements and deadlines.
2. Individuals seeking admission to a professional program must submit a complete school/division application prior to the program's application deadline. See campus description section of this bulletin for names, addresses, and telephone numbers of persons to contact for applications. When applying to more than one program, a separate application must be completed for each program. Admission to the professional program is competitive; application for admission to the school does not constitute automatic admission to a program. Applicants who are not Indiana University students must also file an Indiana University application and pay the application fee prior to the program application deadline. Applications for admission to Indiana University can be obtained from the Office of Admissions on the campus of interest. Some campuses may have application deadlines.

3. All complete applications are reviewed by the program's admission committee. The selection of a class is based on school and program admission criteria. All applicants receive written notification of their admission status.
4. Applicants may appeal any admission decision except the requirement of a grade point average of 2.0 on a 4.0 scale. Copies of the policies and procedures governing the appeals process are available on request from any of the allied health administrative offices.
5. Individuals interested in being admitted to one of the school's programs should contact the program of interest annually for an update of admission criteria.
6. The school/division application is revised each summer. Applicants must obtain an application for the year in which they wish to apply.
7. Applicants should check the current school application for the deadlines for submission.

Transfer Credit

Acceptance of credit from a regionally accredited college or university for transfer to Indiana University will be determined by the campus office of admissions.

Only grades of C or above will be considered for transfer. The university does not accept the transference of special credit by examination awarded by another college or university. The transfer of 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 IU's Division of Independent Study, correspondence study, or other nontraditional methods must be validated and approved by the faculty of the program to which the student is applying. The School of Allied Health Sciences retains the right to determine the acceptability of transfer credit to meet degree requirements.

DEGREE REQUIREMENTS

The faculty of the School of Allied Health Sciences, Indiana University School of Medicine, will recommend for degrees only those students who have been admitted to Indiana University and are students in good standing in the School 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 program faculty reserve the right 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 of the School of Allied Health Sciences or the dean's campus designee. 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.

General Requirements

Minimum Degree Requirements

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

Bachelor's Degree

- a. Minimum of 122 credit hours.
- b. School baccalaureate degree general-education requirements.
- c. Minimum of 30 credit hours in courses at the 300-400 (junior-senior) level.

Associate Degree

- a. Minimum of 60 credit hours.
- b. School 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 Areas

A.S. Degree

Written Communication	one course
Verbal Communication	one course
At least one course from any two of the following categories:	

Humanities

(Literature, Philosophy,
Fine Arts)

College-level Mathematics

Social-Behavioral Sciences

Basic Life-Physical Sciences

B.S. Degree

Written Communication	two courses
Verbal Communication	one course
Humanities	one course

(Literature, Philosophy,
Fine Arts)

College-level Mathematics

Social-Behavioral Sciences

Basic Life-Physical Sciences

Program Prerequisites

Each program has additional specific course requirements. Refer to the program of interest in this bulletin for specific information.

Professional Program Requirements

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

Credentials/Licensure Required to Practice

Students completing any of the professional programs are qualified to sit for the appropriate licensure and/or credentialing examinations. However, students who have been convicted of a felony may be unable to obtain appropriate credentials to practice in some disciplines. Contact the program director for further information.

Academic Regulations

All students admitted to the School 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 (deferred grade) is applicable only to courses approved for that purpose. The grade R 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. Upon completion of the course, the instructor will submit paperwork to replace the R grade on the transcript with the earned grade.

Pass/Fail Pass/Fail grading is a student option in elective courses. 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 do not affect the grade point average. A failing grade adversely affects the grade point average. Students may not use the Pass/Fail option for a stated prerequisite or a professional course. 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 and 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.

Special Credit Policy The School of Allied Health Sciences may award special credit to students who are enrolled at Indiana University seeking a degree and who possess, by previous education or experience, a background in an allied health discipline represented in the school. The mechanisms by which a student may be awarded credit include credit by credentials, credit by experience, and credit by examination. Each discipline has policies that define how these mechanisms apply to a student seeking credit from that discipline. Students may obtain a copy of the school's Special Credit Policy and Procedure by contacting any of the allied health administrative offices.

Withdrawal from a Course With appropriate approval of the faculty, withdrawal is permitted at or before mid-semester with an automatic grade of W. A student withdrawing through the third quarter of each semester will receive W or F depending upon the student's 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 the approval of the instructor and the dean or campus designee and dependent upon student performance at the time withdrawal is requested. Petitions for withdrawal in the last quarter of the semester will only be considered if the student provides compelling nonacademic reasons. The desire to avoid a low grade is not an acceptable reason for withdrawal from a course.

Students who alter their original class schedule, whether by personal incentive or by university directive, must do so officially by filing the appropriate forms with the registrar. 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.

Double Major A double major does not exist in the School of Allied Health Sciences, and second major options have not been established between the school and any other academic unit. Each degree in the School 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 School of Allied Health Sciences are required to complete the professional component in sequence with their class of admission.

FX Option for Retaken Courses

Undergraduate students are permitted to repeat courses in which they receive an F at Indiana University and have only the second grade in the course count in the official grade point average. The student's transcript, however, will record all grades. An FX will replace the original F on the student's transcript for the repeated course. The following restrictions apply to the use of the FX option: (1) a student may exercise the FX option for no more than three courses, totaling no more than 10 credit hours; and (2) a student may use the FX option only once for a given course. A grade of D (or any other grade) cannot be improved under this policy. This policy does not apply to courses retaken prior to the 1976 fall semester.

The student who repeats a course must receive an A, B, C, D, P, S, or F to change the original F to an FX. The grade of W does not qualify. Students in the school who want to use the FX option should consult with their faculty adviser to obtain approval prior to retaking a course.

Remedial Courses Generally, remedial and refresher courses will not satisfy any course requirement for any allied health degree. Contact the program for further information.

Academic Policies

Students in Good Standing Students must maintain a minimum cumulative grade point

average of C (2.0) and a minimum grade point average of 2.0 for the most recent academic session 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 Within Indiana University, class standing is based on the total number of credit hours a student has earned. However, within the school, class standing is assigned according to a student's progress in the professional curriculum.

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 18 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 program, the student is considered to be full time regardless of the number of credit hours taken during that period. Students who want to carry more than 18 credits must obtain permission of the program director and dean or the dean's campus 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 Upon the recommendation of the faculty in the student's program, a student is placed on probation. Probationary recommendations are made when the student does not meet standards of academic performance or professional behavior. A student will be placed on academic probation for the academic session following the one in which the student fails to attain a minimum C (2.0) cumulative and/or semester grade point average. Individual programs may have additional academic and/or professional standards. A student who fails to meet these program-specific standards may also be placed on probation. Students are informed of program-specific standards upon entering the program. A student will be removed from probation after satisfactorily completing the program's specified requirements. Students are notified in writing of probationary actions by the school's dean or the dean's campus representative.

Dismissal Upon the recommendation of the faculty in the student's program, a student may be dismissed from the school. Dismissal is based on the failure to meet academic or professional standards. The student will be informed of the dismissal in writing by the school's dean or the dean's campus representative.

Academic Standards A student in the School of Allied Health Sciences may be dismissed from the school 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 academic sessions, or has a cumulative grade point average below C (2.0) for two consecutive sessions, 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 to be 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.

Readmission A student may be readmitted to the school after dismissal or withdrawal as follows:

Temporary Withdrawal Students in good standing who voluntarily and temporarily withdraw from a program will be placed in a temporary inactive status with the School of Allied Health Sciences. At the time of departure, it is the student's responsibility to arrange in writing a continuation agreement with the individual program director. The student is allowed to re-enroll without a review as specified in the continuation agreement. The student 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 School of Allied Health Sciences.

Other Withdrawal A student who withdraws without arranging in writing for a continuation agreement with the program director, or fails to enroll in any semester, will not be allowed further enrollments in the school and will be considered as not making satisfactory progress toward a degree. Such students who want to re-enroll must file an application for admission and will be considered as new applicants. These students may be considered for advanced standing in the program provided the completed work meets the current standards of the program.

Dismissal A student who has been dismissed from the school may not reapply for admission for a year following the dismissal. If readmitted, the student will be placed on probation. Probation will be withdrawn when the student satisfactorily completes all university, school, and programmatic requirements stipulated at the time of readmission. A student who has been dismissed from a program for the second time will not be eligible for readmission to that degree program.

Honors

The School 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. To graduate with academic distinction, baccalaureate and associate degree candidates must rank within the highest 10 percent of their graduating class. The determination of eligibility for graduation with academic distinction will be made by the School of Allied Health Sciences so that candidates will be ranked with classmates who received the same type of degrees (e.g., B.S. in Physical Therapy, B.S. in Radiologic Science).
2. If the 10 percent determination of any class results in a fractional value, the number will be rounded upward (e.g., a graduating class of 11 would have two individuals eligible for distinction).
3. Calculation of the grade point average for graduation with distinction will be based upon the total number of credit hours completed at Indiana University. A candidate must have earned a minimum of 50 percent of the total credit hours required for that degree at Indiana University.
4. No more than 10 percent of the Indiana University credit hours may be eliminated from the grade point average determination by utilization of the mechanisms of Pass/Fail or special credit.
5. A minimum cumulative grade point average of 3.5 must have been achieved to be eligible.
6. Three levels of distinction will be recognized and determined as follows:
3.50 through 3.74—Distinction
3.75 through 3.89—High Distinction
3.90 through 4.00—Highest Distinction

7. The determination of candidates who will wear honor cords at the May graduation ceremonies should include all academic credit earned at IU *including* the spring semester prior to commencement.
8. Unique cases and appeals should be forwarded to the dean of the School of Allied Health Sciences or the dean's campus designee for consideration.

Dean's List Each semester, students who excel academically have the privilege of being listed on the School of Allied Health Sciences Dean's List. To be eligible, students must carry 9 or more credit hours. Additionally, associate degree students must earn a semester grade point average of 3.5; baccalaureate degree students must earn a grade point average of 3.7.

Program Awards School of Allied Health Sciences programs offer awards recognizing academic excellence, leadership, career potential, and service. Students should refer to specific programs for descriptions of these awards.

Honors Program

Students in the School of Allied Health Sciences who would like to pursue courses under the university's Honors Program should consult with program faculty regarding the availability of such courses within the particular program of interest.

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 *Code of Student Ethics* 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 School of Allied Health Sciences statements, which appear below.

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 School of Allied Health Sciences abides by the appeals procedures discussed in the *Code of Student Ethics*. Students may obtain a copy of the school's Appeals Policy and Procedure from any of the school's administrative offices.

Attendance Students are responsible for complying with all attendance requirements that may be established by the school 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 (fieldwork experiences) are required in most School of Allied Health Sciences 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 *Code of Student Ethics*. 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 that 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 *Code of Student Ethics*.

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. 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 student may seek financial assistance through the financial aid office on the campus of interest. In addition, assistance may be available through the School of Allied Health Sciences Student Affairs Committee, professional associations, and other external groups and agencies. Students are responsible for the following costs:

Fees and Tuition Fees and tuition are established by the Indiana University Board of Trustees.

Books and Supplies Books and supplies are determined by the program.

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

Transportation Students are responsible for travel and lodging costs associated with clinical/fieldwork experiences.

Liability Insurance All students participating in required fieldwork experience are covered by the university's professional liability insurance. However, students participating in fieldwork experiences in facilities out of state are required to purchase and show proof of

personal liability insurance prior to being certified to begin the clinical experience.

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

International Students Foreign nationals enrolled in the school are subject to the same rights and responsibilities as all other students. International students should consult the Office for International Students on the campus of interest.

Orientation School of Allied Health Sciences programs require students to attend orientation programs prior to the beginning of the professional courses. 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 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 required academic session and satisfactorily complete all courses required for the degree. Faculty are available to provide academic advising.

Students are responsible for filing the necessary Student Record Change form with the School 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 School 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 alumni association has an enrollment of more than 700 active members.

For more information, contact Katie Stowell, Assistant Director, Indiana University Alumni Association, and liaison to the School of Allied Health Sciences Alumni Association, 200 University Place Hotel, 900 West Michigan Street, Indianapolis, Indiana 46202-6044; or phone (317) 274-8828.

Cardiopulmonary Sciences

Cardiovascular Technology

An educational program in non-invasive cardiovascular technology is being developed on the Indianapolis campus of Indiana University. The anticipated starting date is fall 1992. Contact the School of Allied Health Sciences administrative office for further information. Telephone (317) 274-4702.

Description of the Profession The cardiovascular technologist performs diagnostic examinations at the request or direction of a physician in one or more of the following three areas: 1) invasive cardiology, 2) non-invasive cardiology (echocardiography), and 3) non-invasive peripheral vascular study. Through subjective sampling and/or recording, the technologist creates an easily definable foundation of data from which a correct anatomic and physiologic diagnosis may be established for each patient. This certificate program will prepare cardiovascular technologists for the noninvasive cardiology area.

Graduates of the Program Graduates of the program should be able to:

- Perform high quality M-mode, two-dimensional and Doppler echocardiograms on patients while tailoring the examination to bring out the abnormalities present.
- Perform high quality electrocardiograms, exercise tolerance tests, and ambulatory electrocardiographic monitoring exams.
- Demonstrate patience, persistence, and conscientious attention to the details necessary in performing and evaluating exams and reporting patient data.
- Quantitate and subjectively evaluate data collected to assist the physician interpreting exams.
- Develop clinical understanding of the anatomy, physiology, pathology, diagnosis, and treatment of the major adult and pediatric cardiac disease states.
- Communicate effectively and in a professional manner with both patients and fellow members of the health care team.
- Demonstrate professional and ethical conduct towards patients and fellow health care team members.
- Apply the principles of basic sciences and electronics to the operation and routine maintenance of diagnostic equipment.

CERTIFICATE IN NON-INVASIVE CARDIOVASCULAR TECHNOLOGY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT INDIANAPOLIS

PROPOSED EDUCATIONAL PROGRAM

The certificate program in non-invasive cardiovascular technology is intended for individuals possessing a high school diploma or equivalent, or qualifications in a clinically related allied health profession. The curriculum is twelve courses (43 semester hours) in length, including nine didactic courses and four clinical practice courses. The program will be one calendar year in length. An Associate of Science degree proposal is being developed as an option for students who want to earn a higher education degree.

Facilities Five separate echocardiographic laboratories are located on campus, as well as three electrocardiology laboratories, three stress testing laboratories, and two holter monitoring laboratories. Students will have the opportunity to work with pediatric patients as well as geriatric patients.

ADMISSION

General Information Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program. The application deadline is December 1 of the year prior to anticipated entry.

Proposed Criteria Used for Selection of Class Grade point average and interview.

Proposed Class Size 10 each fall semester.

CURRICULUM

Prerequisites

Applicants must have a high school diploma or equivalent, be eligible for regular admission to IUPUI, and meet the standard criteria listed below. Those applicants not meeting the standard criteria in one or more areas may substitute the corresponding alternate criteria.

Standard Criteria

1. Completion of a college preparatory high school curriculum in the following areas:
 - 8 semesters of English
 - 4 semesters of laboratory science
 - 4 semesters of mathematics (algebra, geometry, etc.)
 - 10 semesters of additional academic courses
2. Scholastic Aptitude Test
Minimum scores: 400 Verbal and 400 Math

- or high school rank in the upper 30 percent.
3. Minimum cumulative grade point average of 3.0 on a 4.0 scale.
 4. Minimum cumulative math/science grade point average of 3.0 on a 4.0 scale.
 5. An admission math placement score necessary to be admitted to MATH 111 or higher.
 6. Applicants with a General Educational Development (GED) certificate will not be considered for direct admission and must seek admission using alternate criteria.

Alternate Criteria

1. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. If the high school preparation lacks the minimum number of semesters in one or more areas, the above credit hours must include course work in that area.
2. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. A 2.3 cumulative grade point average must be achieved.
3. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. A 2.3 cumulative grade point average must be achieved.
4. Completion of at least 4 college credit hours of course work in math or science, and a cumulative math/science grade point average of 2.0 on a 4.0 scale for all math/science course work.
5. Completion of remedial math courses that would prepare the student for entry into MATH 111 (IUPUI course).
6. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. Completion of one college math course and one college science course. The overall grade point average must be 2.3 on a 4.0 scale, and a C grade must be attained in the science and math courses.
Note: The science and math courses do not need to be a part of the 12-credit semester.

Applicants with College Background These criteria are to be used by all applicants with a college background even though they qualify by high school record.

Criteria

1. Meet minimum high school qualifications or alternate criteria.
2. Have a minimum cumulative grade point average of 2.3 on a 4.0 scale for all courses attempted in a college setting. If more than one college has been attended, a combined cumulative grade point average will be

determined and must be 2.3. These averages must be achieved before an interview will be scheduled.

3. Have a science/math cumulative grade point average of 2.0 on a 4.0 scale if any of these courses have been taken.

All of the above represent minimum criteria that will qualify the applicant for completion of the admission process. With the exception of the grade point averages, applicants may be in the process of meeting the criteria when they apply and will be considered, provided the minimum criteria can be met before the first enrollment of the class to which application is being made.

Professional Program

The professional courses are being developed.

Graduation Requirements Satisfactory completion of 43 credit hours of professional course work. All course work must be completed in compliance with the program's and school's academic and professional policies.

**For further information, contact Nancy A. Fitzgerald, Pre-Allied Health Adviser.
Telephone (317) 274-7238.**

Cardiovascular Perfusion

An educational program in perfusion technology is being developed on the Indianapolis campus of Indiana University. Contact the administrative office in the School of Allied Health Sciences at Indianapolis for further information. Telephone (317) 274-4702.

Description of the Profession A perfusionist is a skilled person qualified by academic and clinical education, who operates extracorporeal circulation equipment during any medical situation where it is necessary to support or temporarily replace the patient's circulatory or respiratory function. The perfusionist is knowledgeable concerning the variety of equipment available to perform extracorporeal circulation functions and is responsible in consultation with the physician for selecting the appropriate equipment and techniques to be used. In addition, the perfusionist may be administratively responsible for purchasing supplies and equipment as well as for personnel and departmental management.

The perfusionist is educated to conduct extracorporeal circulation and to ensure the safe management of physiologic functions by monitoring the necessary variables. Furthermore, the perfusionist is educated in the administration of blood products,

anesthetic agents, or drugs through the extracorporeal circuit. The perfusionist is knowledgeable and competent in the use of a variety of techniques such as hypothermia and hemodilution as adjuncts to extracorporeal circulation. Perfusion (extracorporeal circulation) procedures involve specialized instrumentation and/or advanced life-support techniques, and may include a variety of related functions. Final medical responsibility for extracorporeal perfusion rests with the physician/surgeon in charge.

Graduates of the Program A graduate of the Perfusion Technology Program may perform roles in cardiovascular mechanical support, electronic monitoring and diagnostic instrumentation, and organ transplantation.

BACHELOR OF SCIENCE IN PERFUSION TECHNOLOGY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT INDIANAPOLIS

PROPOSED EDUCATIONAL PROGRAM

By mutual agreement, the circulation technology program at The Ohio State University and the School of Allied Health Sciences at Indiana University will collaborate to prepare clinical perfusionists. This collaboration will include a joint venture in Indiana to provide a Bachelor of Science degree program in perfusion technology to be awarded to Indiana University students who: 1) complete their preprofessional course work at Indiana University 2) complete their nonclinical professional course work at The Ohio State University circulation technology program and 3) complete their clinical professional education at the Indiana University Medical Center.

It is expected that program majors will include both full-time and part-time students during the preprofessional course work; students must be full time during the professional program.

ADMISSION

General Information Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. These requirements are being developed; contact the school's administrative office for more information. Admission to the professional program will be competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Proposed Criteria Used for Selection of Class Grade point average in prerequisite courses, personal interview.

Proposed Class Size Five each fall semester.

CURRICULUM

Proposed Prerequisites Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites.

In addition to the school's general-education requirements, applicants must complete at least 77 semester hours of course work, including:

General biology (one semester)
General chemistry (two semesters)
Mathematics (calculus and analytic geometry) (two semesters)
General physics (two semesters)
Biochemistry (one semester)
Anatomy (one semester)

Professional Program The professional courses are being developed.

Graduation Requirements The Bachelor of Science in Perfusion Technology degree proposal includes 77 semester hours of preprofessional and general-education courses and 66 semester hours of professional course work, 22 semester hours of which are clinical, for a total of 143 semester hours.

For further information, contact Nancy A. Fitzgerald, Pre-Allied Health Adviser, School of Allied Health Sciences. Telephone (317) 274-4723.

Emergency Medical Services

EDUCATIONAL PROGRAM

An educational program in paramedic sciences is being developed on the Indianapolis campus of Indiana University. Contact the School of Allied Health Sciences administrative office for further information. Telephone (317) 274-4702.

Description of the Profession Emergency medical technicians (EMTs), formerly called ambulance attendants, care for people at the scene of emergencies and transport them to hospitals or other health care institutions. EMTs (basic, intermediate, and paramedic) determine the nature and extent of victims' medical and trauma-related emergencies and provide limited care. Depending on their level of training and on state regulations, EMTs may provide such care as opening and maintaining airways, controlling bleeding, immobilizing fractures, and administering certain drugs.

Graduates of the Program The Associate of Science in Paramedic Science Degree Program is designed to prepare emergency medical technician-paramedics to deliver emergency patient care in the pre-hospital setting. The EMT-paramedic primarily provides pre-hospital emergency care to acutely ill or injured patients by ambulance service and mobile advanced life-support units under medical command authority, and secondarily, in other appropriate settings that are under physician supervision.

ASSOCIATE OF SCIENCE IN PARAMEDIC SCIENCES AT INDIANA UNIVERSITY— PURDUE UNIVERSITY AT INDIANAPOLIS

EDUCATIONAL PROGRAM

The curriculum is a competency-based education program of clinical, didactic, and practical instruction integrated with a field internship in advanced emergency care and services.

This program will serve students seeking careers in emergency medical services. It will serve both traditional students after graduation from high school, as well as older nontraditional students. The majority of students will be nontraditional in that they have begun to pursue a career in the emergency medical services field on a part-time, full-time, or volunteer basis before deciding on a full-time role in emergency medicine as an EMT-paramedic.

The proposed program follows guidelines established by the Committee on Allied Health Education and Accreditation (CAHEA), integrating general education course work and paramedic science course work into an accredited program leading to an Associate of Science degree. The degree program will build on resources established in the largest and most comprehensive EMT-paramedic program in the state of Indiana, the program at Wishard Hospital. In addition to classroom and laboratory facilities located on the Indiana University–Purdue University at Indianapolis campus, area health care facilities involved in the preparation of EMT-paramedics in this program include Wishard Hospital, Wishard Ambulance Service, Indiana University Hospital, Veterans Administration Hospital, Riley Hospital, and the Dialysis Unit in Fesler Hall.

ADMISSIONS

General Information

Students accepted into the program must complete the school's and the programmatic

admission requirements prior to the first day of classes. These requirements are being developed; contact the school's administrative office for more information. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Proposed Criteria Used for Selection of Class High school grade point average and personal interview.

Proposed Class Size 20 each fall semester.

CURRICULUM

Prerequisites Current certification as an EMT-Advanced in Indiana.

Professional Program The professional courses are being developed.

Proposed Graduation Requirements

Satisfactory completion of 67 credit hours of professional course work. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Nancy A. Fitzgerald, Pre-Allied Health Adviser, School of Allied Health Sciences. Telephone (317) 274-4723.

Respiratory Therapy— Associate Degree

Educational programs in respiratory therapy are located on the following Indiana University campuses: Indiana University–Purdue University at Indianapolis and Indiana University Northwest.

Description of the Profession Respiratory therapists assist patients with the "Breath of Life." A career in respiratory therapy allows practitioners to care for individuals with cardiorespiratory disorders. The primary focus of a respiratory therapist is to care for patients, from the infant to the elderly, with heart and lung disease. Respiratory therapists are an integral part of the fast-paced world of medicine. They utilize life support equipment to treat disease and aid in assessing and diagnosing cardiopulmonary disorders, often working in settings where respiratory therapists teach patients and their families about various respiratory diseases, smoking cessation techniques, or the equipment and drugs used to treat these problems.

Graduates of the Program The graduates of the Associate Degree in Respiratory Therapy Program are eligible for state licensure examinations as well as examinations offered

by the National Board for Respiratory Care. Completion of the program will allow a graduate to sit for the Registered Respiratory Therapist (RRT) examination.

Credential Required to Practice C.R.T.T., Certified Respiratory Therapy Technician; R.R.T., Registered Respiratory Therapist

Licensure Requirements to Practice The graduates of the Respiratory Therapy Program will file an application for certification as a respiratory care practitioner for the state of Indiana.

ASSOCIATE OF SCIENCE IN RESPIRATORY THERAPY AT INDIANA UNIVERSITY– PURDUE UNIVERSITY AT INDIANAPOLIS

Medical Director: Professor LoSasso

Program Director: Associate Professor Cullen

Clinical Coordinator: Associate Professor Perry

Associate Professor: Koss

EDUCATIONAL PROGRAM

Length of the Program Three years; one year (39 semester hours) of prerequisite course work plus 19 months of professional course work.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is a full-time program that is conducted primarily during the day.

Design of the Professional Curriculum The emphasis of the program is on general respiratory care as well as critical care and life-support equipment. Clinical experiences are conducted on campus as well as in community hospitals.

Opportunity for Students to Work Most students work part time while completing the program.

Program Facilities The program offices, classroom, and laboratory are located on the second floor of Coleman Hall on the Indianapolis campus.

Accreditation The Respiratory Therapy Program at Indiana University–Purdue University at Indianapolis is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to

the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class Grade point average and results of personal interview.

Class Size 20 each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies and requirements found at the beginning of the bulletin, the following apply to the Respiratory Therapy Associate Degree Program.

Application Deadline December 1 of the year prior to anticipated entry.

Total Number of Prerequisite Credit Hours 39 semester hours.

Limitations of Course Work Remedial courses will not fulfill prerequisites or count as hours toward the degree.

Minimum Cumulative Grade Point Average 2.0 on a 4.0 scale (2.3 for students entering the professional year in fall 1993). This requirement is applied at the time of application and must be maintained.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview All qualified applicants must participate in an interview. Interviews are conducted in February.

Technical Standards See School of Allied Health Sciences technical standards. Additionally, the respiratory therapy program has program specific technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Human Anatomy (G)	5 cr.
Human Physiology (G)	5 cr.
Algebra (G)	3 cr.
Chemistry with Lab (G)	5 cr.
Microbiology with Lab (G)	3-4 cr.
Written Communications (G)	3 cr.
Speech (G)	3 cr.
Psychology (G)	3 cr.
Life Span Development (G)	3 cr.
Statistics (G)	3 cr.
Total	36-37 cr.

A Suggested Plan of Study:

Freshman

Fall

English Composition	3 cr.
Elem. Chemistry	5 cr.
Beginning Psychology	3 cr.
Human Anatomy	5 cr.
Total	16 cr.

Spring

Speech Communications or Interpersonal Comm.	3 cr.
College Algebra	3-5 cr.
Human Physiology	5 cr.
Intro to Microbiology or Microbiology	3-4 cr.
Total	14-17 cr.

Summer Session I

Statistics	3 cr.
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Summer Session II

Life Span Development	3 cr.
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Professional Program

Courses in the professional program are sequential and must be taken in the order specified by the program faculty.

Second Year

Fall

Cardiorespiratory Physiology AHLT F210	3 cr.
General Respiratory Care AHLT F220	4 cr.
Cardiopulmonary Assessment and Patient Care AHLT F215	2 cr.
Respiratory Care Practicum I AHLT F225	1 cr.
Cardiorespiratory Pharmacology I AHLT F222	2 cr.
Medical Care I AHLT W374	3 cr.
Total	15 cr.

Spring

Cardiorespiratory Diseases AHLT F240	3 cr.
Advanced Life Support AHLT F230	4 cr.
Respiratory Care Practicum II AHLT F235	3 cr.
Pulmonary Diagnostics AHLT F250	3 cr.
Medical Care II AHLT F471	3 cr.
Total	16 cr.

Summer Session I

Respiratory Care Clinical Practicum III AHLT F265	2 cr.
Pulmonary Diagnostics Clinical Practicum AHLT F265	2 cr.
Total	4 cr.

Third Year

Fall

Neonatal-Pediatric Respiratory Care AHLT F330	3 cr.
Cardiorespiratory Pathology and Management AHLT F340	3 cr.
Respiratory Care Clinical Practicum IV AHLT F365	4 cr.
Ethics Elective	3 cr.
Total	13 cr.

Spring

Cardiorespiratory Monitoring and Special Techniques F320	3 cr.
Pulmonary Rehabilitation and Health Promotion AHLT F380	2 cr.
Respiratory Care Clinical Practicum V AHLT F375	4 cr.
Cardiorespiratory Pharmacology II AHLT F360	2 cr.
Total	11 cr.

Scholarships Once accepted to the program, the student is eligible for scholarships offered by the Indiana Society for Respiratory Therapy and the American Association for Respiratory Therapy.

Awards An outstanding student is selected from each graduating class.

Graduation Requirements Satisfactory completion of 98 credit hours to include 39 credit hours of prerequisite course work and 59 credit hours of professional course work. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Dr. Deborah Cullen, Program Director, Respiratory Therapy Program at Indianapolis. Telephone (317) 274-7381.

ASSOCIATE OF SCIENCE IN RESPIRATORY THERAPY AT INDIANA UNIVERSITY NORTHWEST

Medical Director: Professor Dave
Acting Program Director: Assistant Professor Szymczak
Acting Clinical Director: Lecturer Dicks
Clinical Instructors: Chin, Erickson, Laudani

EDUCATIONAL PROGRAM

In the Respiratory Therapy Program at Indiana University Northwest individuals receive

training in the treatment, management, control, care, and rehabilitation of patients with deficiencies and abnormalities associated with respiration. Proper care of patients is emphasized in all phases of the program.

Length of the Program Minimum of two years that include 20 semester hours of prerequisite course work, 44 semester hours of professional course work, and 10 semester hours of graduation requirements.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full-time, day format only.

Design of the Professional Curriculum 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, and pulmonary rehabilitation and home care. The program also teaches students how to assist with cardiopulmonary resuscitation, and how to maintain natural, artificial, and mechanical airways.

Program Facilities The Respiratory Therapy Program offices and classroom/laboratory are located in Hawthorn Hall. Clinical experience is offered in four hospitals and various health care facilities in the northwestern Indiana area.

Accreditation The Respiratory Therapy Program at Indiana University Northwest is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information
Students may apply for admission to the Respiratory Therapy Program at Indiana University Northwest after completion of regular admission to Indiana University and the first year of preprofessional courses as indicated under "Prerequisites" in this section. It is strongly suggested that the applicant have a high school background in physics and biology, as well as two courses in algebra. A student applying to Indiana University who does not have the recommended high school course work will not be denied admission to the program on that basis. However, it is the belief of the program faculty that these high school courses will enhance performance in the science courses at Indiana University Northwest. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Class Selection Admission to the program is based on consideration of each applicant's cumulative grade point average, math/science grade point average, and a personal interview.

Class Size The number of students admitted each year is limited to the number of clinical positions available.

Specific Requirements
In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Respiratory Therapy Program at Indiana University Northwest.

Application Deadline March 15 of the year of anticipated entry.

Total Number of Prerequisite Credit Hours 20 semester hours. While not prerequisites, an additional 13 semester hours are required for graduation.

Limitations of Course Work Remedial courses will not count toward the degree.

Minimum Cumulative Grade Point Average C (2.0 on a 4.0 scale). This requirement is applied at the time of class selection.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences technical standards.

Medical Requirements Documentation of completion of a physical examination is required prior to clinical affiliations.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites
Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Elementary Composition.....	3 cr.
Basic Algebra.....	4 cr.
Human Anatomy.....	4 cr.
Human Physiology.....	4 cr.

Elementary Chemistry (G)	3 cr.
Elementary Chemistry Laboratory	2 cr.
Total	20 cr.

Required for Graduation:

Introductory Microbiology Lecture	3 cr.
Introductory Microbiology Laboratory	1 cr.
Introductory Psychology	3 cr.
Public Speaking	3 cr. or
Interpersonal Communication(G)	3 cr.
Total	10 cr.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Summer Session I

AHLT F205 Respiratory Care I	3 cr.
AHLT F270 Gas Therapy	2 cr.
AHLT F271 Resuscitation and Airway Management	1 cr.
Total	6 cr.

Summer Session II

AHLT F202 Respiratory Care II	3 cr.
AHLT F105 Pharmacology for Respiratory Practitioners	2 cr.
AHLT F181 Clinical Education I	3 cr.
Total	8 cr.

Fall

AHLT F272 Cardiopulmonary Pathophysiology	3 cr.
AHLT F273 Principles and Management of Ventilators	4 cr.
AHLT F253 Diagnostic Testing and Monitoring	5 cr.
AHLT F182 Clinical Education II	6 cr.
Total	18 cr.

Spring

AHLT F274 Neonatal and Pediatric Respiratory Care	3 cr.
AHLT F275 Comprehensive Clinical Education III	8 cr.
AHLT F276 Case Studies and Projects in Respiratory Care	1 cr.
Total	12 cr.

Scholarships The Geraldine Peiffer Scholarship Fund sponsors a scholarship for a second-year student in the Respiratory Therapy Program at Indiana University Northwest. Other scholarship opportunities may be available.

Graduation Requirements Satisfactory completion of 74 credit hours to include 23 credit hours of prerequisite course work, 44 credit hours of professional course work, and 13 credit hours of course work to fulfill graduation requirements. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Ruth Szymczak, Acting Program Director, Respiratory Therapy Program, Indiana University Northwest. Telephone (219) 680-6548.

Respiratory Therapy— Bachelor's Degree

An educational program in respiratory therapy is located at Indiana University—Purdue University at Indianapolis.

Description of the Profession While the Associate of Science in Respiratory Therapy prepares students to perform general respiratory care, critical respiratory care, and life-support techniques, a Bachelor of Science in Respiratory Therapy allows the graduate a career ladder that includes a special clinical emphasis within the cardiorespiratory field as well as leadership training.

Graduates of the Program The graduates of the Bachelor of Science Degree Program in Respiratory Therapy are eligible for state licensure examinations as well as examinations offered by the National Board for Respiratory Care. Completion of the program will allow a graduate to sit for the Registered Respiratory Therapist (RRT) examination.

Credential Required to Practice R.R.T., Registered Respiratory Therapist

Licensure Required to Practice The graduates of the Respiratory Therapy Program will file an application for certification as a Respiratory Care Practitioner for the state of Indiana.

BACHELOR OF SCIENCE IN RESPIRATORY THERAPY AT INDIANA UNIVERSITY— PURDUE UNIVERSITY AT INDIANAPOLIS

EDUCATIONAL PROGRAM

Description of the Program The Bachelor of Science program encompasses the first three years of the associate degree program with an additional year of clinical experience. Clinical experiences may include neonatology / pediatrics, rehabilitation, critical care and cardiovascular monitoring, pulmonary diagnostics, and polysomnography. An emphasis is placed on leadership skills and communication. Clinics are arranged according to availability and student interest. During the senior year of the program classes are arranged so that most students are able to work and still attend classes. The opportunity is present for a student to attend classes part time or full time.

Accreditation The Respiratory Therapy Program is accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

See Associate of Sciences in Respiratory Therapy.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Respiratory Therapy Baccalaureate Degree Program.

Application Deadline December 1 of the year prior to anticipated entry.

Total Number of Prerequisite Hours 39 semester hours. Graduates from accredited respiratory therapy programs are eligible to apply; however, applicants must have all prerequisites.

Minimum Cumulative Grade Point Average 2.0 on a 4.0 scale (2.3 for students entering the professional year in fall 1993). This requirement is applied at the time of application and must be maintained.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview All qualified applicants must participate in an interview. Interviews are conducted in February.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Human Anatomy (G)	5 cr.
Human Physiology (G)	5 cr.
Algebra (G)	3 cr.
Chemistry with Lab (G)	4-5 cr.
Microbiology with Lab (G)	3-4 cr.
Written Communications (G)	2 courses
Speech (G)	3 cr.
Psychology (G)	3 cr.
Life Span Development (G)	3 cr.
Statistics (G)	3 cr.
Total	38-40 cr.

A Suggested Plan of Study:

Freshman

Fall

English Composition	3 cr.
Elem. Chemistry	5 cr.

Beginning Psychology	3 cr.
Human Anatomy	5 cr.
Total	16 cr.

Spring

Speech Communications or Interpersonal Comm.	3 cr.
College Algebra	3-5 cr.
Human Physiology	5 cr.
Intro to Microbiology or Microbiology	3-4 cr.
Total	14-17 cr.

Summer Session I

Statistics	3 cr.
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Summer Session II

Life Span Development	3 cr.
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Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Second and Third Year See the associate degree professional program for a listing of courses.

Fourth year

Summer (Session I/II)

W231 Professional Writing Skills	3 cr.
Total	3 cr.

Fall

AHLT F420 Introduction to Research in Respiratory Care	3 cr.
AHLT F430 Management and Leadership for Respiratory Care	2 cr.
AHLT F440 Advanced Cardiac Life Support	2 cr.
AHLT F435 Clinical Specialty I	4 cr.
AHLT F445 Seminar in Cardiorespiratory Care	1-5 cr.
Total	12-16 cr.

Spring

AHLT F475 Clinical Specialty II	4 cr.
AHLT F465 Senior Project in Cardiorespiratory Sciences	4 cr.
AHLT F480 Smoking Cessation Techniques	1 cr.
SPEA H320 Introduction to Health Administration	3 cr.
Total	12 cr.

Scholarships Once accepted to the program, the student is eligible for scholarships offered by the Indiana Society for Respiratory Therapy and the American Association for Respiratory Therapy.

Graduation Requirements Satisfactory completion of 124 credit hours to include 39 credit hours of prerequisite course work and 85 credit hours of professional course work. All course work must be completed in

compliance with the program's and school's academic and professional policies.

For further information, contact Dr. Deborah Cullen, Program Director at IUPUI, Respiratory Therapy Program. Telephone (317) 274-7381.

Course Descriptions

AHLT F105 Pharmacology for Respiratory Practitioners (2 cr.) P: F205, F270 F271. A study of the accurate application of pharmacologic principles and pharmacologic agents utilized in the effective and safe diagnosis, prevention, or treatment of cardiopulmonary disease.

AHLT F181 Clinical Education I (3 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 sessions.

AHLT F182 Clinical Education II (6 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 I, Summer Session II, and the Fall Semester.

AHLT F202 Respiratory Care II (3 cr.) P: F205, F270, F271. Lecture and laboratory experiences providing knowledge and skills necessary to implement effective aerosol therapy, IPPB therapy, and chest physiotherapy. Application of respiratory care to the establishment of effective pulmonary rehabilitation and home care programs is made.

AHLT F205 Respiratory Care I (3 cr.)

Introduction to respiratory care; governing agencies; emphasis on professionalism and ethics; physical science principles; cardiopulmonary anatomy and physiology; patient care; concepts of illness; microbiology and infection control.

AHLT F210 Cardiorespiratory Physiology (3 cr.)

This course focuses on the normal anatomy and physiology of the cardiorespiratory system including lung mechanics, ventilation, perfusion, diffusion, gas transport, and acid-base balance.

AHLT F215 Cardiorespiratory Assessment and Patient Care (2 cr.)

This course focuses on basic cardiorespiratory assessment, vital signs, laboratory studies, and charting. Normal and abnormal variations are reviewed.

AHLT F220 General Respiratory Care (4 cr.)

This course employs both lecture and laboratory exercises to focus on basic respiratory therapy equipment and procedures. Physiologic applications, effects on the cardiopulmonary system, and hazards for each therapeutic procedure are discussed.

AHLT F222 Cardiorespiratory Pharmacology I (2 cr.)

This course overviews the basics of pharmacology therapeutics focusing on dosages and solutions and bronchodilator drugs. Indications, side effects, mechanism of action, and route of administration are discussed.

AHLT F225 Respiratory Care Practicum I (1 cr.)

This course applies cardiorespiratory assessment techniques, information gathering skills, and communication skills in the clinical setting.

AHLT F230 Advanced Life Support (4 cr.)

This course relates care of the artificial airway, cardiovascular monitoring and supportive therapy, principles of ventilatory care, and maintenance as well as physiologic effects and complications of airway pressure therapy.

AHLT F235 Respiratory Care Clinical

Practicum II (3 cr.) This course applies cardiopulmonary assessment techniques, information gathering, and communication skills in providing general respiratory care in the clinical setting. This includes medical gas, humidity and aerosol therapy delivery, and treatment modalities.

AHLT F240 Cardiorespiratory Diseases (3 cr.)

This course outlines general cardiorespiratory diseases of the adult including acute and chronic disorders. Respiratory therapeutics applied to these diseases are discussed.

AHLT F245 Pulmonary Diagnostics Clinical

Practicum (2 cr.) This course is designed to allow the student to gain experience in pulmonary function testing. The student should gain expertise in correlating pulmonary disorders with the pulmonary function interpretation.

AHLT F250 Pulmonary Diagnostics (3 cr.)

This course will outline and discuss both normal and abnormal lung volumes and capacities, mechanics of ventilation, inspiratory and expiratory flows, and diffusion of the lung. Additionally, specialty diagnostic techniques such as X-rays, bronchoscopy, ventilation perfusion scans, and exercise testing will be overviewed.

AHLT F253 Diagnostic Testing and

Monitoring (5 cr.) P: F105, F181, F202.

Comprehensive study of blood gas analysis, pulmonary function testing, cardiac and cardiovascular monitoring, and application of these diagnostic procedures to patient management.

AHLT F265 Respiratory Care Clinical Practicum III (2 cr.) This clinical practicum will introduce the respiratory care student to variations in oxygen delivery and basic mechanical ventilation. Treatment modalities and hemodynamic monitoring on mechanically ventilated patients will be integrated.

AHLT F270 Gas Therapy (2 cr.) Lecture and laboratory course that examines the rationale, indications, hazards, and safe administration of oxygen therapy, helium-oxygen therapy, carbon dioxide therapy, and incentive spirometry.

AHLT F271 Resuscitation and 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. Upon completion of this course students are certified in Basic Cardiac Life Support for Health Care Providers.

AHLT F272 Cardiopulmonary Pathophysiology (3 cr.) P: F105, F181, F202. This course acquaints the student with cardiac and pulmonary pathophysiologies applicable to respiratory care techniques and treatment methods used in clinical practice, and teaches the student to effectively communicate with other health care professionals.

AHLT F273 Principles and Management of Ventilators (4 cr.) P: F105, F181, F202. Lecture and laboratory course providing in-depth study of the operational principles, application, and management of ventilators. Emphasis is placed on the appropriate management of patients requiring mechanical ventilation.

AHLT 274 Neonatal and Pediatric Respiratory Care (3 cr.) P: F182, F253, F272, F273. A study of neonatal and pediatric 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 (8 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.

AHLT F276 Case Studies and Projects in Respiratory Care (1 cr.) P: F182, F253, F272, F273; concurrent enrollment in spring courses. Individually designed projects and case studies in education, health promotion, administration, rehabilitation, research, and/or clinical practice. Project proposals and case studies require instructor's approval.

AHLT F320 Cardiorespiratory Monitoring and Special Techniques (3 cr.) This course reviews electrocardiograms, intracranial pressure monitoring, capnography, and pulmonary artery monitoring techniques. Case studies emphasizing these special procedures will be presented.

AHLT F330 Neonatal-Pediatric Respiratory Care (3 cr.) This course outlines fetal physiology, cardiorespiratory transition, and respiratory management of neonatal pathologies including respiratory distress syndrome. Cardiorespiratory techniques for the pediatric patient are reviewed as well as pediatric trauma and transport.

AHLT F340 Cardiorespiratory Pathology and Management (3 cr.) Case studies for diseases involving acid-base balance, electrolyte balance, ventilatory management, and other advanced life-support techniques or procedures as applied to the cardiorespiratory system will be reviewed. An emphasis will be placed on decision-making skills.

AHLT F360 Cardiorespiratory Pharmacology II (2 cr.) An overview of pharmacologic agents and their effect on the various body systems. Drug effects on the respiratory, circulatory, and nervous systems are emphasized. P: AHLT F222

AHLT F365 Respiratory Care Clinical Practicum IV (4 cr.) This course will allow the student to apply advanced patient assessment techniques, information gathering skills, and communication and leadership skills in the neonatal/pediatric and adult critical care clinical settings.

AHLT F375 Respiratory Care Clinical Practicum V (2 cr.) This clinical practicum will allow the student to apply assessment skills, general respiratory care, and critical respiratory care techniques to the neonatal/pediatric patient and adult critical care patient with emphasis on performance of advanced life-support techniques.

AHLT F380 Pulmonary Rehabilitation and Health Promotion (2 cr.) Rehabilitation therapies and techniques applicable to chronic lung disease are overviewed. These include oxygen therapy, nutrition, drug therapy, and breathing retraining. Therapy appropriate to cardiorespiratory health is discussed.

AHLT F420 Introduction to Research in Respiratory Care (3 cr.) This course examines research in respiratory care and applies basic statistics and concepts of research design.

AHLT F430 Management and Leadership for Respiratory Care (2 cr.) Specific theory and practice applied to directing and managing a respiratory therapy department, including the managerial functions of budgeting,

controlling, organization, planning, staffing, and coordinating.

AHLT F435 Clinical Specialty I (4 cr.)

Introductory clinical experience in a specialty area of respiratory care supervised by registered respiratory therapists in varied clinical settings.

AHLT F440 Advanced Cardiac Life Support

(2 cr.) This course introduces the student to the didactic and technical skills needed for successful proficiency of ACLS standards as set forth by the American Heart Association.

AHLT F445 Seminar in Cardiorespiratory

Care (1-5 cr.) Specialty areas of emphasis for respiratory care presented in a seminar format. Seminar is designed to meet the specialty selected by the student. Students may repeat this course with a new specialty requested.

Each student is required to take a minimum of one hour and a maximum of five hours.

AHLT F465 Senior Project in

Cardiorespiratory Sciences (4 cr.) Individual research projects in a specialty area of cardiorespiratory sciences or clinical science. Projects require department approval and are individually based.

AHLT F475 Clinical Specialty II (4 cr.)

Advanced clinical experiences in a specialty area of respiratory care supervised by registered respiratory therapists in varied clinical settings.

AHLT F480 Smoking Cessation Techniques

(1 cr.) Techniques of smoking education and cessation are presented. Attendance at seminars and community meetings required.

Clinical Laboratory Sciences

Histology

An educational program in histologic technology is located on the Northwest campus of Indiana University.

Description of the Profession A histologic technician processes surgical and autopsy tissue specimens for the purpose of microscopic examination by the pathologist.

Graduates of the Program After completion of the certificate program, the student is eligible to take the national certification exam offered by the Board of Registry of the American Society of Clinical Pathologists. Those who pass the Board of Registry exam may use the initials HT(ASCP) after their name. Students who have completed the program and are certification exam eligible are qualified to practice prior to taking the exam. Graduates of the Histologic Technology Certificate Program who wish to complete the Associate Degree in Medical Laboratory Technology will have completed 10 of their required credit hours for that program.

CERTIFICATE IN HISTOLOGIC TECHNOLOGY AT INDIANA UNIVERSITY NORTHWEST IN GARY

Medical Director: Griep

Program Director: Mackie

Adjunct Instructors: Hutton, Dickerson, Dickerhoff

EDUCATION PROGRAM

Length of the Program 12 months of professional course work beginning with Summer Session II (late June). The curriculum consists of 11 courses (37 semester hours), including seven didactic and four clinical courses.

Structure of the Program Histologic technology core courses, including clinical education, are offered during the day. General education courses are offered both day and evening.

Design of the Professional Curriculum

Students accepted into the Histologic Technology Program begin the course of study in Summer Session II. The curriculum consists of general education and technical courses, along with clinical experience in hospitals in Northwest Indiana. Students spend approximately 20 hours a week in clinical rotation. The Histologic Technology Program is designed to:

- Provide educational experiences to prepare students for beginning a career as a histologic technician.
- Provide concentrated clinical experiences in all areas of histologic technology by a rotation schedule through a hospital laboratory.
- Provide the medical community with individuals qualified to effectively carry out the functions of the histologic technology discipline.
- Contribute to the liberal education of the student by providing a core of general education courses.
- Counseling students interested in pursuing an associate degree.
- Assist students in reaching their goals by providing academic, occupational, and personal guidance.

Program Facilities The Histologic Technology Program offices and classroom are located in Hawthorn Hall at Indiana University Northwest at Gary. Clinical experience is conducted at St Catherine Hospital (East Chicago), St. Mary Medical Center (Hobart), St. Margaret Hospital (Hammond), The Methodist Hospital (Gary), St. Anthony's Medical Center (Crown Point), Northern Indiana Medical Laboratory Services (NIMLS), and St. Francis Hospital (Blue Island, Illinois).

Accreditation The Indiana University Histologic Technology Program at Indiana University Northwest has applied for accreditation to the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Criteria Used for Selection of Class High school and/or college grade point average, SAT score, and a personal interview. Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the program application does not guarantee admission.

Class Size Approximately seven students each Summer Session II.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Histologic Technology Program.

Application Deadline March 15 of the year of anticipated entry.

Minimum Academic Requirements The applicant must be a high school graduate or equivalent.

Distribution of Credits in Specific Areas
Prospective students are required to complete one year of high school biology and one year of high school chemistry or the equivalent.

Limitations of Course Work Remedial course work will not count as hours toward the certificate.

Minimum Cumulative Grade Point Average
High school or college grade point average of 2.0 on a 4.0 scale.

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences technical standards.

Medical Requirements Documentation of completion of a physical examination is required prior to placement in a clinical site.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

There are no college course prerequisites.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Summer Session I

Medical Terminology AHLT R185	1 cr.
Histotechnology I AHLT H101	4 cr.
Histotechnology Practicum I AHLT H181	2 cr.
Total.....	7 cr.

Fall

Elementary Chemistry I CHEM C101.....	3 cr.
Elementary Chemistry Lab I CHEM C121	2 cr.
Histotechnology II AHLT H102	4 cr.
Histotechnology Practicum II AHLT H182	4 cr.
Total.....	13 cr.

Spring

Human Anatomy & Physiology AHLT P262	4 cr.
Histotechnology III AHLT H103	4 cr.
Histotechnology Practicum III AHLT H183	4 cr.
Total.....	12 cr.

Summer Session I

Histotechnology Topics AHLT H104.....	3 cr.
Histotechnology Practicum IV AHLT H184	2 cr.
Total.....	5 cr.

Scholarships The National Society for Histotechnology sponsors scholarships for students in accredited histologic technology programs. Other scholarship opportunities may be available through the Office of Scholarships and Financial Aid.

Program Completion Requirements

Satisfactory completion of 34 credit hours. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Kathleen Mackey, Instructor in Medical Laboratory Technology. Telephone (219) 980-6863.

Phlebotomy

An educational program in phlebotomy technology is located on the Northwest campus of Indiana University at Gary.

Description of the Profession The phlebotomy technician is an integral member of the clinical laboratory team. The phlebotomy technician collects blood samples from patients for laboratory tests requested by the physician. Phlebotomy technicians must be accurate, responsible, and skilled. Practice settings include hospitals, private laboratories, clinics, and physician offices.

Graduates of the Program After completion of the certificate program, the student is eligible to take one or both national certification exams offered by the Board of Registry of the American Society of Clinical Pathologists and the National Certification Agency for Medical Laboratory Personnel. Those who pass the Board of Registry exam may use the initials PBT(ASCP) after their name, while those passing the National Certifying Agency exam may use CLPib(NCA). Graduates who are certification exam eligible are qualified to practice prior to taking the exam.

**CERTIFICATE IN PHLEBOTOMY
AT INDIANA UNIVERSITY
NORTHWEST IN GARY**

Medical Director: Griep
Interim Program Director: Hoban
Adjunct Instructors: Mackie, Tallent, Wheeler

EDUCATIONAL PROGRAM

Length of the Program One semester.

Structure of the Program Phlebotomy technician core courses, including clinical education, are offered during the day.

Design of the Professional Curriculum

Students accepted into the Phlebotomy Technician Program begin the course of study in the Spring Semester. The curriculum consists of didactic course work and clinical experience in hospitals in the Northwest Indiana area. The clinical experience consists of 160 hours of phlebotomy instruction in a hospital. The phlebotomy Technician Program is designed to:

- Provide educational experiences to prepare students for beginning a career as a phlebotomy technician.
- Provide the medical community with individuals qualified to effectively carry out the functions of the phlebotomy discipline.
- Counsel students interested in pursuing an associate degree in a related area of medical laboratory science.
- Assist students in reaching their goals by providing academic, occupational, and personal guidance.

Description of the Program Facilities The Phlebotomy Technician Program offices and classroom are located in Hawthorn Hall at Indiana University at Gary.

Accreditation The Indiana University Phlebotomy Technician Program at Indiana University Northwest is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Criteria Used for Selection of Class High school and/or college grade point average. Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the program is competitive; therefore, completion of the program application does not guarantee admission.

Class Size Approximately 15 students each spring semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Phlebotomy Technician Program.

Application Deadline September 15 of the year prior to anticipated entry.

Minimum Academic Requirements The applicant must be a high school graduate or equivalent.

Limitations of Course Work Remedial course work will not count as hours toward the certificate.

Minimum Cumulative Grade Point Average

High school grade point average of 2.0 on a 4.0 scale. This requirement is applied when students are selected from the applicant pool.

Technical Standards See School of Allied Health Sciences technical standards.

Medical Requirements Documentation of completion of a physical examination is required prior to placement in a clinical site.

Indiana Residents Preference Policy See School of Allied Health Sciences Policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

High school diploma or equivalent.

Professional Program

Courses coded with (G) meet school general-education requirements.

Medical Terminology

AHLT R185	1 cr.
Interpersonal Communications (G)	
SPCH S122	3 cr.
Introduction to Phlebotomy	
AHLT C142	3 cr.
Phlebotomy Practicum	
AHLT C143	2 cr.
Introduction to Health Care Delivery	
AHLT C102	2 cr.
Body Structure and Function	
AHLT C150	14 cr.

Scholarships Scholarship opportunities may be available through the Office of Scholarships and Financial Aid.

Program Completion Requirements

Satisfactory completion of 14 credit hours. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Program Director, Medical Laboratory Technology. Telephone (219) 980-6923.

Medical Laboratory Technology

An educational program in medical laboratory technology is located on the Indiana University Northwest campus in Gary.

A program is being developed at Indiana University East. Contact Dr. Joan Lafuze on the Indiana University East campus at Richmond for further information. Telephone (317) 973-8246.

Description of the Profession The tests performed in a clinical laboratory are important to the practice of modern medicine. The medical laboratory technician (MLT) is a member of a medical team that includes pathologists, specialists, and technologists working together to provide data needed to evaluate disease and effectiveness of treatment. A medical laboratory technician performs general tests in blood banking, chemistry, hematology, immunology, microbiology, and urinalysis, under the direct supervision of medical technologists or specialists. Medical technicians operate computers, precision instruments, and other complex electronic equipment. Additional responsibilities include specimen procurement, specimen processing, and quality control procedures. Medical laboratory technicians must be accurate, dedicated, self-motivated, and skilled. Practice settings include hospitals, for-profit laboratories, clinics, public health facilities, veterinary laboratories, business, and industry. A medical laboratory technician earning a baccalaureate degree and having the appropriate experience can advance to the technologist level.

Graduates of the Program After completion of the associate degree, the student is eligible to take one or both national certification exams offered by the Board of Registry of the American Society of Clinical Pathologists and the National Certification Agency for Medical Laboratory Personnel. Those who pass the Board of Registry exam may use the initials MLT(ASCP) after their name, while those passing the National Certifying Agency exam may use CLT(NCA). Graduates who are certification exam eligible are qualified to practice prior to taking the exam.

Credential Required to Practice MLT (ASCP) Medical Laboratory Technician, CLT (NCA) Clinical Laboratory Technician.

Licensure Required to Practice There are no licensure requirements for medical laboratory technicians in the state of Indiana. However, some states (e.g., Florida) require a license for laboratory personnel. Graduates interested in relocating may contact the state's Department of Health and Rehabilitative Services.

ASSOCIATE OF SCIENCE IN MEDICAL LABORATORY TECHNOLOGY AT IU NORTHWEST

Medical Director: Griep
Interim Program Director: Hoban
Adjunct Instructors: Mackie, Brito, Butkiewicz, Boney, Baughman

EDUCATIONAL PROGRAM

Length of the Program Two years (seven semesters) of professional course work.

Structure of the Program Medical laboratory technology core courses, including clinical education, are offered during the day. General-education courses are offered both day and evening.

Design of the Professional Curriculum Students accepted into the Medical Laboratory Technology Program begin the course of study in Summer Session II. The curriculum consists of general-education courses, technical courses in medical laboratory technology, and clinical experience in hospitals in the Northwest Indiana area. Students attend a clinical rotation 40 hours a week during Summer Session II of the second year and 36 hours a week during their last semester. Students completing a didactic course and the corresponding clinical rotation (e.g., hematology or phlebotomy) are eligible to work in that laboratory department based on hospital policy and position availability.

The Medical Laboratory Technology Program is designed to:

- Provide educational experiences to prepare students for beginning a career as a medical laboratory technician.
- Provide concentrated clinical experiences in phlebotomy, hematology, immunology, microbiology, immunochemistry, chemistry, and urinalysis by a rotation schedule through a hospital laboratory and other health care laboratories in the community.
- Provide the medical community with individuals qualified to effectively carry out the functions of the medical laboratory technology discipline.
- Contribute to the liberal education of the students by providing a core of general-education courses.

- Counsel students interested in pursuing a medical technology degree.
- Assist students in reaching their goals by providing academic, occupational, and personal guidance.

Description of Program Facilities The Medical Laboratory Technology Program offices and classroom are located in Hawthorn Hall at Indiana University Northwest at Gary.

Accreditation The Indiana University Medical Laboratory Technology Program at Indiana University Northwest is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Criteria Used for Selection of Class High school and/or college grade point average, SAT score, and a personal interview. Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the program application does not guarantee admission.

Class Size Approximately 16 students each Summer Session II.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Medical Laboratory Technology Program.

Application Deadline March 15 of the year of anticipated entry.

Minimum Academic Requirements The applicant must be a high school graduate or equivalent.

Distribution of Credits in Specific Areas Prospective students are required to complete one year of high school algebra and one year of high school chemistry or the equivalent.

Limitations of Course Work Remedial course work will not count as hours toward the degree.

Minimum Cumulative Grade Point Average High school grade point average of 2.0 on a 4.0 scale. College grade point average will be used when the total number of credit hours equals or exceeds 12 credits. This requirement is applied when students are selected from the applicant pool.

Minimum Specific Grade Point Average The program computes a selected course grade

point average based on courses the student may have taken that are required by the program.

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences technical standards.

Medical Requirements Documentation of completion of a physical examination is required prior to placement in a clinical site.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

There are no college course prerequisites.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Courses coded with (G) meet school general-education requirements.

First Year

Summer Session II

Basic Mathematics MATH 100.....	4 cr.
Medical Terminology	
AHLT R185.....	1 cr.
Total.....	5 cr.

Fall

Human Anatomy and	
Physiology I PHSL P261	4 cr.
Elementary Chemistry I (lecture)	
CHEM C101	3 cr.
Elementary Chemistry Laboratory I	
CHEM C121	2 cr.
Introduction to the Clinical	
Laboratory, AHLT C180	2 cr.
Interpersonal Communications (G)	
SPCH S122	3 cr.
Total.....	14 cr.

Spring

Human Anatomy and	
Physiology II PHSL P262.....	4 cr.
Elementary Chemistry II (lecture)	
CHEM C102	3 cr.
Elementary Chemistry Laboratory II	
CHEM C122	2 cr.
Elementary Composition (G)	
ENG W131	3 cr.
Hematology AHLT C131	3 cr.
Total.....	15 cr.

Summer Session I

Body Fluids AHLT C161.....	3 cr.
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Clinical Immunoserology	
AHLT C141	3 cr.
Total	6 cr.

Summer Session II

Clinical Education I	
AHLT C181	3 cr.
Introductory Psychology (G)	
PSY P101	3 cr.
Total	6 cr.

Second Year

Fall

Clinical Chemistry I AHLT C121	3 cr.
Clinical Chemistry II AHLT C122	2 cr.
Clinical Microbiology I	
AHLT C151	3 cr.
Clinical Microbiology II	
AHLT C152	3 cr.
Immunohematology AHLT C140	3 cr.
Total	14 cr.

Spring

Clinical Education II	
AHLT L182	4 cr.
Clinical Education III	
AHLT L28	4 cr.
Advanced Laboratory Techniques	
AHLT L202	2 cr.
Total	10 cr.

Scholarships The Indiana Society for Medical Technology sponsors scholarships for students in accredited medical laboratory technology programs. Other scholarship opportunities may be available through the Office of Scholarships and Financial Aid.

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

Graduation Requirements Satisfactory completion of 70 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact the Program Director, Medical Laboratory Technology Program, Indiana University Northwest. Telephone (219) 980-6542.

Medical Technology

Educational programs in medical technology are located on the following Indiana University campuses: Indiana University-Purdue University at Indianapolis, Indiana University Medical Center; Indiana University-Purdue University at Fort Wayne, Parkview Hospital; Indiana University at Kokomo, St. Joseph Hospital; and Indiana University Northwest at Gary, St. Mary Medical Center.

Programs are being developed on the following Indiana University campuses: IU at South Bend [contact Dr. Theodore W. Hengesbach, (219) 237-4260]; IU East at Richmond [contact Dr. Joan Lafuze, (317) 973-8246]; and IU Southeast at New Albany [contact Dr. Galen Renwick (812) 941-2375].

Description of the Profession Medical technology is a diverse, science-oriented profession aimed at accurate performance of clinical laboratory procedures on biologic samples from patients. The results from these procedures are used by physicians in diagnosing and treating diseases. Some of the tasks that medical technologists perform are listed below:

- Analyses of simple/complex chemical components of body fluids
- Evaluation of cellular components of blood
- Identification of microorganisms as well as their antibiotic susceptibilities
- Preparation of blood components for patient therapy
- Evaluation of new techniques, procedures, instruments.

Technologists continually evaluate the quality of the results from procedures and instruments and solve any problems that relate to inconsistencies. Excellent communication skills are required so that technologists can interact with other members of the health care team and teach as well as manage individuals under their supervision.

Medical technologists typically work in laboratories located in hospitals, clinics, physician group practices, blood centers, medical research facilities, or medically oriented industries.

Graduates of the Program Students who successfully complete the senior/professional year of the medical technology program and have a baccalaureate degree are eligible to take national certification examinations. Nationally recognized certification is a requirement for employment in many settings.

Credential Required to Practice M.T.(ASCP), Medical Technologist

Licensure Requirements to Practice There is no state licensure in Indiana; however, some states require licensure in addition to or instead of national certification.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT INDIANAPOLIS

Medical Director: Professor Nordschow
Program Director: Associate Professor Kasper

Professors: Allen, Bartlett, Feeley, Glick, McCarthy, Moorehead, Neiman, Oei, Ryder, Smith

Associate Professors: Baenziger, Gartner, Hocker, Kasper, Leland, Marler

Assistant Professors: Davis, Dean, Hill, Kotylo, Rodak

EDUCATIONAL PROGRAM

Length of Program Medical technology is a four-year baccalaureate degree program that is typically full-time days; however, some part-time day positions are available on the IUPUI campus. The program is structured in a 3 + 1 arrangement in which three years are spent in regular college courses in order to complete prerequisite courses and the fourth year is the senior/professional year. The professional year includes both didactic and clinical experiences.

Description of Program Facilities The Medical Technology Program at IUPUI has program offices, a classroom, and a student laboratory located on the fourth floor of Fesler Hall. Facilities utilized for clinical experiences include University Hospital, Riley Hospital, Wishard Memorial Hospital, and Richard Roudebush Veterans Administration Medical Center.

Accreditation The Medical Technology Program at Indiana University-Purdue University at Indianapolis is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Cumulative and science/math grade point average, essay, interview, motivation, and residency.

Class Size The program is accredited to accept 32 students each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Medical Technology Program at IUPUI.

Application Deadline December 1 in the year prior to desired entry into senior/professional year.

Total Number of Prerequisite Credit Hours 90 semester hours.

Distribution of Credit Hours in Specific Areas Applicants must complete at least 18 credit hours in the biological sciences and 18 credit hours in chemistry. See prerequisites.

Limitations of Course Work Courses in organic chemistry, microbiology, and immunology must have been taken within the previous six years.

Minimum Cumulative Grade Point Average 2.5 on a 4.0 scale.

Minimum Specific Grade Point Average 2.5 on a 4.0 scale in science and mathematics courses.

Minimum Grade in a Stated Prerequisite Course C (2.0 on a 4.0 scale) in science and mathematics courses.

Interview Applicants must complete a one-hour interview. Interviews are scheduled during November and December and include both oral and written components.

Technical Standards See School of Allied Health Sciences policy on technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Written Communications (G).....	2 courses
Verbal Communications (G)	3 cr.
Humanities (G).....	3 cr.
Social-Behavioral Sciences (G)	6 cr.

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

Introductory Biology (G)
Microbiology (with lab)
Genetics
Human Physiology
Immunology

Chemistry Applicant must complete, by entry date, at least 18 credit hours (or the equivalent) of chemistry, to include the following courses:

Qualitative (with lab) (G)
 Quantitative (with lab)
 Organic I (with lab)
 Analytical Chemistry, Biochemistry, Clinical
 Chemistry, or Organic II to complete the 18
 credit hours.

Mathematics Applicant must complete, by
 entry date, the following courses:
 Mathematics (Algebra/Trigonometry or
 higher) (G)
 Statistics

Suggested Electives While not inclusive or
 mandatory, the following is a list of suggested
 elective areas: human anatomy, introduction to
 computers, medical terminology, and medical
 microbiology.

Suggested Plan of Study

The following is a suggested three-year plan of
 the prerequisites. Changes in this schedule can
 be made. Students should check with their
 advisers to make sure all of the requirements
 are being met.

Freshman

Fall
 English Composition3 cr.
 Algebra and Trig.....3 cr.
 Biology - Plants5 cr.
 Principles of Chem I (with lab).....5 cr.
Total.....16 cr.

Spring
 Speech Communications or
 Interpersonal Comm.3 cr.
 Algebra and Trig.....3 cr.
 Biology - Animals5 cr.
 Principles of Chem. II (with lab).....5 cr.
Total.....16 cr.

Sophomore

Fall
 Organic Chemistry3 cr.
 Organic Chemistry Lab.....2 cr.
 Human Physiology.....5 cr.
 Electives.....6 cr.
Total.....16 cr.

Spring
 Microbiology (with lab)3-4 cr.
 Chemistry Elec.3 cr.
 Sociology3 cr.
 Humanities Electives.....3 cr.
 Electives.....3 cr.
Total.....15(16) cr.

Junior

Fall
 Immunology3 cr.
 Genetics3 cr.
 Electives.....6 cr.
Total.....12 cr.

Spring
 Statistics.....3 cr.
 Psychology.....3 cr.
 Electives.....6 cr.
 Written Comm3 cr.
Total.....15 cr.

Professional Program

Courses in the professional program are
 sequential and must be taken in the order
 specified by the program faculty.

Fall

Serology AHLT C4091 cr.
 Serology Laboratory AHLT C4291 cr.
 Hemostasis AHLT C4041 cr.
 Hemostasis Techniques AHLT C4241 cr.
 Mycology/Parasitology AHLT C420.....2 cr.
 Urine Analysis AHLT C410.....2 cr.
 Diagnostic Medical Microbiology
 AHLT C4114 cr.
 Diagnostic Microbiology Laboratory
 AHLT C4212 cr.
Total.....14 cr.

Spring

Clinical Chemistry AHLT C406.....4 cr.
 Clinical Chemistry Instrumentation and
 Methodologies AHLT C4262 cr.
 Hematology AHLT C4072 cr.
 Hematologic Techniques and Procedures
 AHLT C4272 cr.
 General Externship I AHLT C4012 cr.
 General Externship II AHLT C4022 cr.
 General Externship III AHLT C4032 cr.
Total.....16 cr.

Summer Session I

Blood Banking AHLT C408.....4 cr.
 Topics in Medical Technology
 AHLT C4122 cr.
Total.....6 cr.

Scholarships A limited number are available
 for accepted students. Contact the program
 when notified of admission. A limited number
 of opportunities for part-time employment are
 available.

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

**For further information, contact Professor
 Linda Kasper, Program Director, Medical
 Technology Program. Telephone (317) 274-
 1264.**

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE (IPFW)

Medical Director: Smith

Program Director: Williams

EDUCATIONAL PROGRAM

Length of the Program Four years; three years (90 semester hours) of prerequisite course work and 12 months (32 semester hours) of professional course work.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full time, day format only.

Design of the Professional Curriculum The lecture presentations are designed to complement laboratory experiences.

Opportunity for Students to Work Opportunities are limited.

Description of Facilities The Medical Technology Program affiliated with the IPFW campus is located at Parkview Memorial Hospital.

Accreditation The Medical Technology Program at Parkview Memorial Hospital is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Cumulative and science grade point average, interview, references, essay, and motivation.

Class Size Five each July.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Medical Technology Program at Parkview Memorial Hospital.

Total Number of Prerequisite Credit Hours 90 semester hours.

Distribution of Credit Hours in Specific Areas Applicants must complete at least 18

credit hours in the biological sciences and 18 credit hours in chemistry. See prerequisites.

Limitations of Course Work Courses in organic chemistry, microbiology, and immunology must have been taken within the previous six years.

Minimum Cumulative Grade Point Average 2.5 on a 4.0 scale.

Minimum Specific Grade Point Average 2.5 on a 4.0 scale in science and mathematics courses.

Minimum Grade in a Stated Prerequisite Course C (2.0 on a 4.0 scale) in science and mathematics courses.

Interview Applicants must complete an interview. Interviews are scheduled during November and December and include both oral and written components.

Technical Standards See School of Allied Health Sciences policy on technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Written Communications (G).....	2 courses
Verbal Communications (G)	3 cr.
Humanities (G).....	3 cr.
Social-Behavioral Sciences (G)	6 cr.

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

Introductory Biology (G)
Microbiology (with lab)
Genetics
Human Physiology
Immunology

Chemistry Applicant must complete, by entry date, at least 18 credit hours (or the equivalent) of chemistry, to include the following courses:

Qualitative (with lab) (G)
Quantitative (with lab)
Organic I (with lab)
Analytical Chemistry, Biochemistry, Clinical

Chemistry, or Organic II to complete the 18 credit hours.

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

Mathematics (Algebra/Trigonometry or higher) (G)
Statistics

Suggested Electives While not inclusive or mandatory, the following is a list of suggested elective areas: human anatomy, introduction to computers, medical terminology, medical microbiology.

Suggested Plan of Study

The following is a suggested three-year plan of the prerequisites. Changes in this schedule can be made. Students should check with their advisers to make sure all requirements are being met.

Freshman

Fall

English Composition.....	3 cr.
Algebra and Trig.....	3 cr.
Biology - Plants.....	5 cr.
Principles of Chem. I (with lab).....	5 cr.
Total.....	16 cr.

Spring

Speech Communications or Interpersonal Comm.	3 cr.
Algebra and Trig.....	3 cr.
Biology - Animals.....	5 cr.
Principles of Chem. II (with lab).....	5 cr.
Total.....	16 cr.

Sophomore

Fall

Organic Chemistry	3 cr.
Organic Chemistry Lab.....	2 cr.
Human Physiology.....	5 cr.
Electives.....	6 cr.
Total.....	16 cr.

Spring

Microbiology (with lab).....	3-4 cr.
Chemistry Elec.	3 cr.
Sociology	3 cr.
Humanities Electives.....	3 cr.
Electives.....	3 cr.
Total.....	15(16)cr.

Junior

Fall

Immunology	3 cr.
Genetics.....	3 cr.
Electives.....	6 cr.
Total.....	12 cr.

Spring

Statistics.....	3 cr.
Psychology.....	3 cr.
Written Comm	3 cr.

Electives.....	6 cr.
Total.....	15 cr.

Professional Program

Courses in the professional program are sequential and must be taken in the order specified by the program faculty.

Clinical Hematology AHLT C460.....	8 cr.
Clinical Analysis of Urine and Body Fluids AHLT C461.....	2 cr.
Clinical Microbiology and Mycology AHLT C462.....	6 cr.
Clinical Parasitology AHLT C463.....	2 cr.
Clinical Serology AHLT C464.....	2 cr.
Clinical Chemistry AHLT C465.....	8 cr.
Clinical Immunohematology AHLT C466.....	4 cr.
Professional Development Topics in Medical Technology AHLT C467.....	1 cr.

Awards Each year a student is selected to receive the Outstanding Student in Allied Health Sciences Award.

Graduation Requirements Satisfactory completion of 122 credit hours to include 90 credit hours of prerequisite and general-education courses and 32 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Fran Williams, MS, MT (ASCP), Parkview Memorial Hospital. Telephone (219) 484-6636.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY AT INDIANA UNIVERSITY AT KOKOMO

Medical Director: Adjunct Assistant Professor Hughes

Program Director: Adjunct Lecturer Auksel

EDUCATIONAL PROGRAM

Length of the Program Four years; three years (90 semester hours) of prerequisite course work and 12 months (32 semester hours) of professional course work.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full time, day format only.

Design of the Professional Curriculum The lecture presentations are designed to complement laboratory experiences.

Opportunity for Students to Work
Opportunities are limited.

Description of Facilities The Medical Technology Program affiliated with the Indiana University at Kokomo campus is located at St. Joseph Hospital and Health Center.

Accreditation The Medical Technology Program at St. Joseph Hospital is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Cumulative and science grade point average, grades in related science courses taken beyond the minimum requirements, interview, references, essay, motivation, and work experience.

Class Size Five each July.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Medical Technology Program at St. Joseph Hospital.

Total Number of Prerequisite Credit Hours
90 semester hours.

Distribution of Credit Hours in Specific Areas

Applicants must complete at least 18 credit hours in the biological sciences and 18 credit hours in chemistry. See prerequisites.

Limitations of Course Work Courses in organic chemistry, microbiology, and immunology must have been taken within the previous six years.

Minimum Cumulative Grade Point Average
2.5 on a 4.0 scale.

Minimum Specific Grade Point Average 2.5 on a 4.0 scale in science and mathematics courses.

Minimum Grade in a Stated Prerequisite Course C (2.0 on a 4.0 scale) in science and mathematics courses.

Interview Applicants must complete an interview. Interviews are scheduled during November and December.

Technical Standards See School of Allied Health Sciences policy on technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to entering the program, students must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Written Communications (G).....	2 courses
Verbal Communications (G)	3 cr.
Humanities (G).....	3 cr.
Social-Behavioral Sciences (G).....	6 cr.

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

Introductory Biology (G)
Microbiology (with lab)
Genetics
Human Physiology
Immunology

Chemistry Applicant must complete, by entry date, at least 18 credit hours (or the equivalent) of chemistry, to include the following courses:
Qualitative (with lab) (G)
Quantitative (with lab)
Organic I (with lab)
Analytical Biochemistry, Clinical Chemistry, or Organic II to complete the 18 credit hours.

Mathematics Applicant must complete, by entry date, the following courses:
Mathematics (Algebra/Trigonometry or higher) (G)
Statistics

Suggested Electives While not inclusive or mandatory, the following is a list of suggested elective areas: human anatomy, introduction to computers, medical terminology, medical microbiology.

Suggested Plan of Study

The following is a suggested three-year plan of the prerequisites. Changes in this schedule can be made. Students should check with their advisers to make sure all requirements are being met.

Freshman*Fall*

English Composition	3 cr.
Math.....	3 cr.
Biology.....	5 cr.
Chemistry I.....	5 cr.
Total.....	16 cr.

Spring

English Composition	3 cr.
Math.....	3 cr.
Human Physiology.....	5 cr.
Chemistry II.....	5 cr.
Total.....	16 cr.

Sophomore*Fall*

Organic Chemistry	3 cr.
Organic Chemistry Lab.....	2 cr.
Speech.....	3 cr.
Microbiology	4-5 cr.
Electives.....	3 cr.
Total	15-16 cr.

Spring

Chemistry Elective	3 cr.
Sociology	3 cr.
Humanities Electives.....	6 cr.
Genetics	3 cr.
Total.....	15 cr.

Junior*Fall*

Statistics.....	3 cr.
Physics.....	5 cr.
Electives.....	6 cr.
Total.....	14 cr.

Spring

Immunology	3 cr.
Psychology.....	3 cr.
Electives.....	7 cr.
Total.....	13 cr.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Clinical Hematology AHLT C460	8 cr.
Clinical Analysis of Urine and Body Fluids AHLT C461	2 cr.
Clinical Microbiology and Mycology AHLT C462	6 cr.
Clinical Parasitology AHLT C463	2 cr.
Clinical Serology AHLT C464	2 cr.
Clinical Chemistry AHLT C465	8 cr.
Clinical Immunohematology AHLT C466	4 cr.
Professional Development Topics in Medical Technology AHLT C467	1 cr.

Scholarships Textbooks are provided to students free of charge.

Awards Each year a student is selected to receive the Outstanding Student in Allied Health Sciences Award.

Graduation Requirements Satisfactory completion of 122 credit hours to include 90 credit hours of prerequisite and general-education courses and 32 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact **Dr. Robert Roales, Coordinator, Allied Health Programs, Kokomo Campus. Telephone (317) 455-9371.**

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY AT INDIANA UNIVERSITY NORTHWEST

Medical Director: Mason

Program Director: Demitroulas

EDUCATIONAL PROGRAM

Length of the Program Four years; three years (90 semester hours) of prerequisites and 12 months (32 semester hours) of professional course work.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full time, day format only. The program begins in June of each year. Students in the program are full-time and attend class Monday through Friday from 7 a.m. to 3:30 p.m.

Design of the Professional Curriculum The curriculum is designed so that students attend clinical laboratory instruction 30 hours per week and didactic instruction for 10 hours per week throughout the year. Didactic lecture presentations are designed to complement laboratory experience with emphasis on theory and pathophysiology. Laboratory instruction stresses development of clinical laboratory skills, understanding of the principles of analysis procedures, instrumentation, trouble shooting, and problem solving techniques. Case studies are included to enable students to correlate laboratory data with disease states and develop a better understanding of the role of laboratory analysis in patient care. Laboratory instruction is designed to emphasize a one-to-one instructional technique with a hands-on approach to instrumentation during the focus of the clinical experience.

Opportunity for Students to Work Students may be employed part-time during the clinical year.

Description of Facilities St. Mary Medical Center at Hobart, Indiana is a 200-bed, full-service hospital that has a comprehensive laboratory. The laboratory also provides microbiology service for three hospitals and clinical chemistry services for two hospitals. Therefore, the students are exposed to a wide variety of clinical laboratory experiences. The school is located in the laboratory.

Accreditation The St. Mary Medical Center Medical Technology Program is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Cumulative grade point average, references, and interview.

Class Size Six to eight each summer.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Medical Technology Program at St. Mary Medical Center.

Application Deadline December 15 of the year prior to anticipated entry.

Total Number of Prerequisite Credit Hours 90 semester hours.

Distribution of Credit Hours in Specific Areas Applicants must complete at least 18 credit hours in the biological sciences and 18 credit hours in chemistry. See prerequisites.

Limitations of Course Work Courses in organic chemistry, microbiology, and immunology must have been taken within the previous six years.

Minimum Cumulative Grade Point Average 2.5 on a 4.0 scale.

Minimum Specific Grade Point Average 2.5 on a 4.0 scale in science and mathematics courses.

Minimum Grade in a Stated Prerequisite Course C (2.0 on a 4.0 scale) in science and mathematics courses.

Interview Applicants must complete an interview. Interviews are scheduled during November and December and include both oral and written components.

Technical Standards See School of Allied Health Sciences policy on technical standards.

Medical Requirements Students admitted to the medical technology program must pass a physical examination given by the employee health service physician. The exam includes routine laboratory tests and a chest X-ray.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Written Communications (G).....	2 courses
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 credit hours (or the equivalent) of biology, to include the following courses:

- Introductory Biology (G)
- Microbiology (with lab)
- Genetics
- Human Physiology
- Immunology

Chemistry Applicant must complete, by entry date, at least 18 credit hours (or the equivalent) of chemistry, to include the following courses:

- Qualitative (with lab) (G)
- Quantitative (with lab)
- Organic I (with lab)
- Analytical Biochemistry, Clinical Chemistry, or Organic II to complete the 18 credit hours.

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

- Mathematics (Algebra/Trigonometry or higher) (G)
- Statistics

Suggested Electives While not inclusive or mandatory, the following is a list of suggested elective areas: human anatomy, introduction to computers, medical terminology, medical microbiology.

Suggested Plan of Study

The following is a suggested three-year plan of the prerequisites. Changes in this schedule can be made. Students should check with their advisers to make sure all the requirements are being met.

Freshman

Fall

English Composition	3 cr.
Algebra and Trig	3 cr.
Biology - Plants	5 cr.
Principles of Chem. I	5 cr.
Total	16 cr.

Spring

Speech Communications or Interpersonal Comm.	3 cr.
Algebra and Trig	3 cr.
Biology - Animals	5 cr.
Principles of Chem. II	5 cr.
Total	16 cr.

Sophomore

Fall

Organic Chemistry	3 cr.
Organic Chemistry Lab	2 cr.
Human Physiology	5 cr.
Electives	6 cr.
Total	16 cr.

Spring

Intro to Microbiology or Microbiology	3-4 cr.
Chemistry Elec	3 cr.
Sociology	3 cr.
Humanities Electives	3 cr.
Electives	3 cr.
Total	15(16)cr.

Junior

Fall

Intro to Immunology or Immunology	3 cr.
Genetics	3 cr.
Electives	6 cr.
Total	12 cr.

Spring

Statistics	3 cr.
Beginning Psychology or Higher	3 cr.
Written Comm.	3 cr.
Electives	6 cr.
Total	15 cr.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Clinical Hematology AHLT C460	8 cr.
Clinical Analysis of Urine and Body Fluids AHLT C461	2 cr.
Clinical Microbiology and Mycology AHLT C462	6 cr.
Clinical Parasitology AHLT C463	2 cr.
Clinical Serology AHLT C464	2 cr.
Clinical Chemistry AHLT C465	8 cr.
Clinical Immunohematology AHLT C466	4 cr.
Professional Development Topics in Medical Technology AHLT C467	1 cr.

Graduation Requirements Satisfactory completion of 122 credit hours to include 90 credit hours of prerequisite and general-education courses and 32 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Sue Demitroulas, MT(ASCP), Program Director, St. Mary Medical Center, Hobart, Indiana. Telephone (219) 942-0551.

Course Descriptions

Histotechnology

AHLT H102 Histotechnology II (4 cr.)

P:H101. Topics focus on microtomy, staining, mounting, and decalcification techniques. Chemistry, mathematics, and microscopic anatomy discussed. Labs included.

AHLT H103 Histotechnology III (4 cr.)

P:H102. Systematic study of special stains including connective tissue stains, carbohydrate stains, microorganism stains, fats, lipids, and others. Lab included.

AHLT H104 Histotechnology Topics (3 cr.)

P:H103. Review of selected topics in histotechnology covered by lecture and demonstration.

AHLT H181 Histotechnology Practicum I (2 cr.)

P: Admission to the Histologic Technology Program. Clinical practicum experience in instrumentation, fixation, processing, and embedding of tissue. Procedures performed under the direct supervision of a designated registered technician.

AHLT H182 Histotechnology Practicum II (4 cr.)

P: Admission to Histologic Technology Program. Clinical practicum experience in all phases of histologic laboratory testing. Procedures performed under direct supervision of a designated registered technician.

AHLT H183 Histotechnology Practicum II (4 cr.)

P: Admission to Histologic Technology

program. Clinical practicum experience in all phases of histologic laboratory testing. Procedures performed under the direct supervision of a designated registered technician.

AHLT H184 Histotechnology Practicum IV (2 cr.) Clinical practicum experience in all phases of histologic laboratory testing. Students work independently on assigned projects to demonstrate proficiencies, as established by the program, in histologic techniques. Procedures performed with guidance from a designated registered technician.

Medical Laboratory Technology

AHLT C121 Clinical Chemistry I (3 cr.)

Introduction to laboratory automation including macro and microtechniques for chemical analyses. Focuses on importance of quality control as it relates to instrumentation in the determination of various biochemical constituents.

AHLT C122 Clinical Chemistry II (1-3 cr.)

Introduction to clinical chemistry and basic laboratory methods. Fundamentals of primary blood constituents, their significance in health and disease, and procedures for determinations. Emphasis is on general rules for clinical analysis.

AHLT C131 Hematology (3 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.

AHLT C140 Immunohematology (3 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.

AHLT C141 Clinical Immunoserology (3 cr.)

Introduction to principles of immunology at the level of antibody formation and reaction. Laboratory focus is on serologic testing used to detect abnormalities present because of antigen-antibody interaction. Lab included.

AHLT C151 Clinical Microbiology I (3 cr.)

This course embodies the essential principles of bacteriology relative to human disease, with emphasis on current knowledge regarding the pathogenicity of the microorganisms presented as well as cultivation, isolation, and identification of those organisms.

AHLT C152 Clinical Microbiology II (3 cr.)

Topics focus on parasitology with inclusion of

protozoa, helminths, and arthropods as agents of infection, virology, and medical mycology. Current knowledge regarding clinical pathogenicity of the microorganisms and identification of these organisms is included.

AHLT C161 Body Fluids (3 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. Labs include physical, chemical, and microscopic examinations of urine, gastric, and spinal fluids. Lab included.

AHLT 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.

AHLT 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.

AHLT 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.

AHLT L202 Advanced Clinical Topics (2 cr.)

Topics include resume writing, interviewing skills, research and case study presentations, and current medical topics presented by experts from the community, local hospitals, and universities. Students prepare and present a case study.

AHLT 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.

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, virology, and parasitology.

AHLT C404 Hemostasis (1 cr.) Hemostasis is a course covering the basic principles of the hemostasis mechanism, including an overview of the laboratory techniques used to evaluate disorders of hemostasis. Emphasis will focus on the major components of hemostasis, interaction of these components, and laboratory evaluation of the major hemostatic disorders.

AHLT C406 Clinical Chemistry (4 cr.)

Emphasis on metabolic processes that maintain chemical homeostasis in humans, the application of clinical chemistry assay values in evaluating the integrity of these processes, and the correlation of abnormal results with metabolic dysfunction and/or disease states.

AHLT C407 Hematology (2 cr.) Study of functions, maturation, and morphology of blood cells in addition to factors regulating production, metabolism, and kinetics of blood cells. The etiologic and morphologic classifications of blood disorders and diseases; correlations with bone marrows and cytochemistries. Study of cellular contents of other body fluids.

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 (1 cr.) Lectures describing and comparing all pertinent serologic procedures utilized in diagnosis of rheumatoid arthritis, rubella, streptococcal disease, syphilis, various febrile conditions, fungal infections, parasite infections, and infectious mononucleosis. Selected lectures in viral culturing methods.

AHLT C410 Urine Analysis (2 cr.) Routine urine examination and special tests; laboratory and special lectures.

AHLT C411 Diagnostic Medical Microbiology (4 cr.) An in-depth study of the clinically significant microorganisms with special emphasis on their clinical significance, cultural, and biochemical characteristics and susceptibility testing patterns.

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 Mycology/Parasitology (2 cr.)

Lecture and laboratory experience covering clinically significant fungi and parasites. Clinical manifestations, collection and procedures for processing of specimens, and identification techniques will be employed.

AHLT C421 Diagnostic Microbiology Laboratory (2 cr.) Laboratory experience in the performance of skills and procedures needed for the isolation, identification, and susceptibility testing of clinically significant microorganisms.

AHLT C424 Hemostasis Techniques (1 cr.)

Laboratory course emphasizing the major screening and definitive test for the evaluation of normal and abnormal hemostasis. Tests will include evaluation of platelets, blood vessels, coagulation and fibrinolysis.

AHLT C426 Clinical Chemistry Instrumentation and Methodologies (2 cr.)

Emphasis is on utilization of basic and intermediate methodologies and instrumentation and their application to assaying a variety of body constituents in a clinical chemistry laboratory.

AHLT C427 Hematologic Techniques and Procedures (2 cr.) Experience in blood cell identification on stained smears; blood cell, platelet, and reticulocyte counting procedures. Techniques of sedimentation rates, hematocrits, corpuscular indices, hemoglobin determination, and smear preparation staining. Introduction to instrumentation and quality control. Special procedures including bone marrow preparations, flow cytometry, and automated differential counters.

AHLT C429 Serology Laboratory (1 cr.)

Laboratory experience in performance of various testing procedures utilized in serologic diagnosis of infectious diseases and various syndromes. Techniques include precipitation, flocculation, and various hemagglutination and hemagglutination inhibition techniques, fluorescent antibody testing and complement fixation.

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.

* This medical technology course is offered intermittently and is NOT part of the standard curriculum.

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 C460 Clinical Hematology (6 cr.) Lecture and clinical experiences related to the functions, maturation, morphology, and clinical laboratory evaluation of blood cells and cellular elements in body fluids. Laboratory evaluation of hemostasis. Techniques, instrumentation, and quality control routinely used in the hematology department of a clinical laboratory.

AHLT C461 Clinical Analysis of Urine and Body Fluids (2 cr.) Lecture and clinical experiences in the biochemical, physical, and microscopic examination of urine and other body fluids.

AHLT C462 Clinical Microbiology and Mycology (6 cr.) Lecture and clinical experiences in the isolation, identification, and susceptibility testing of medically important microorganisms and fungi. Techniques, instrumentation, and quality control routinely used in the microbiology department of a clinical laboratory.

AHLT C463 Clinical Parasitology (2 cr.) Lecture and clinical experiences, collection and processing of specimens, identification

techniques, and diseases associated with clinically significant parasites.

AHLT C464 Clinical Serology (2 cr.) Lecture and clinical experiences in immunology as applied to the serologic diagnosis of infectious diseases and various syndromes. Technology, instrumentation, and quality control routinely used in the serology department of a clinical laboratory.

AHLT C465 Clinical Chemistry (8 cr.) Lecture and clinical experiences in the application of analytical methods for the clinical detection of disorders. Techniques, instrumentation, and quality control routinely used in the clinical chemistry department of a clinical laboratory.

AHLT C466 Clinical Immunohematology (4 cr.) Lecture and clinical experience in serologic principles and methods for safe transfusion practice. Techniques, instrumentation, and quality control routinely used in the blood bank department of a clinical laboratory.

AHLT C467 Professional Development Topics in Medical Technology (1 cr.) Lectures and exercises in principles of supervision for the medical laboratory, and teaching and evaluation in the clinical setting.

AHLT C471 Clinical Chemistry I (2 cr.)* Training and experience with more frequently used chemistry tests, e.g., determination of glucose and urea nitrogen; automated and manual methods.

AHLT C472 Clinical Chemistry II (2 cr.)* P: C471. Limited experience with less frequently performed special procedures.

AHLT C473 Clinical Chemistry III (2 cr.)* P: C471 and C472. Special equipment utilization; preparation and maintenance of 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;

* This medical technology course is offered intermittently and is NOT part of the standard curriculum.

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.

Phlebotomy

AHLT C102 Introduction to Health Care

Delivery (2 cr.) Basic concepts in health care delivery, organization, and policy; topics in

professionalism, ethics and quality assurance, discussion of career opportunities; overview of current trends and issues.

AHLT C142 Introduction to Phlebotomy

(3 cr.) Introduction to basic phlebotomy techniques including venipuncture, skin puncture, and arterial puncture. Topics include specimen requirements, patient contact recommendations, isolation procedures, quality assurance, and laboratory safety.

AHLT C143 Phlebotomy Practicum (2 cr.)

Clinical practicum experience in phlebotomy spent in local clinical affiliate. Students perform venipuncture and skin puncture techniques on outpatients and inpatients. Student responsible for own transportation to clinical affiliate.

AHLT C150 Body Structure and Function

(3 cr.) An introduction to the basic structures and functions of the human body; fundamental anatomic terminology, and relationships of clinical laboratory to diagnosis.

* This medical technology course is offered intermittently and is NOT part of the standard curriculum.

Cytotechnology

An educational program in cytotechnology is located on the Indiana University–Purdue University at Indianapolis campus.

Description of the Profession

Cytotechnology is a medical laboratory specialty in which microscopic studies of exfoliated, abraded, and aspirated cells from the human body are 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. In addition, it aids in establishing the diagnosis of benign disease processes such as endocrine disorders, and in the detection of some pathogenic microorganisms.

Graduates of the Program

The Cytotechnology Program is designed to provide its graduates a comprehensive, fundamental knowledge of clinical cytology that will enable them to function as competent cytotechnologists and will provide a basis for continuing education and professional growth. Graduates 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. Graduates should be prepared for management, supervisory, and educational responsibilities and should seek ways to contribute to the growing body of knowledge in clinical cytology. The program is designed to prepare graduates to 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.

Credential Required to Practice B.S., CT(ASCP); cytotechnology certification by American Society of Clinical Pathologists.

Licensure Requirements to Practice No license is required to practice in Indiana.

BACHELOR OF SCIENCE IN CYTOTECHNOLOGY AT INDIANA UNIVERSITY–PURDUE UNIVERSITY AT INDIANAPOLIS

Medical Director: Professor Tao

Program Director: Associate Professor Crabtree

Lecturer: Porter

EDUCATIONAL PROGRAM

Length of the Program Four years, including three years (90 semester hours) of prerequisite course work, plus 11 months (34 semester hours) of professional course work.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full-time, day format only.

Design of the Professional Curriculum An integral relationship between the program and the cytology 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 are encouraged. Opportunity is provided for the student to pursue special interests in the field of cytology.

Opportunity for Students to Work Some students have part-time jobs.

Program Facilities The Cytotechnology Program is offered at the Indiana University Medical Center, which has modern educational and medical facilities. Classroom facilities and faculty offices are located in the Medical Sciences Building, Room B029. 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 the Veterans Administration Hospital are also utilized.

Accreditation The curriculum of the Cytotechnology Program is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

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 humanity, and be willing to accept the

responsibilities of providing health care service. Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Cumulative grade point average, biology grade point average, interview.

Class Size Eight each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the cytotechnology program.

Application Deadline December 1 of the year prior to anticipated entry.

Total Number of Prerequisite Credit Hours 90 semester credit hours.

Distribution of Credits in Specific Areas 25 credit hours in biology.

Limitations of Course Work Biology credits earned more than seven years prior to application must be updated by taking 3 additional credit hours related to cell biology within a period of time not to exceed 12 months prior to admission. Remedial courses will not fulfill prerequisite hours.

Minimum Cumulative Grade Point Average 2.0 on a 4.0 scale.

Minimum Specific Grade Point Average Biology grade point average of 2.5 on a 4.0 scale (applicable at interview).

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview All qualified applicants must participate in an interview. Interviews are conducted the second week of January.

Technical Standards See School of Allied Health Sciences technical standards.

Medical Requirements Students accepted into the professional program must complete a health form, immunization card, chest X-ray, and eye examination before classes begin.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements. Written Communications (G) (2 courses) 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: In addition to the courses listed above, students must take additional upper-level biology courses (not including botany courses) to total a minimum of 25 credit hours. Recommended courses include microbiology with laboratory, developmental anatomy or embryology with laboratory, genetics with laboratory, molecular or cellular biology, histology, and immunology. Questions regarding alternative biology courses should be directed to the Cytotechnology Program faculty.

Suggested Electives

Three of the following courses are recommended: microbiology, embryology, genetics, animal cell physiology, immunology.

While not inclusive or mandatory, the following is a list of suggested elective areas: medical microbiology, endocrinology, parasitology, virology, cytogenetics, computer science, management, organic chemistry, biochemistry, physics, advanced mathematics, and statistics.

A Suggested Plan of Study

The following is a suggested three-year plan of prerequisites.

Freshman

Fall

English Composition	3 cr.
Algebra and Trig.....	3 cr.
Biology-Plants	5 cr.
Elem. Chemistry I	
or Princ. of Chem. I.....	5 cr.
Total.....	16 cr.

Spring

Speech Communication or Interpersonal Comm.	3 cr.
Biology-Animals	5 cr.
Elem. Chemistry II	5 cr.
Electives	3 cr.
Total	16 cr.

Sophomore*Fall*

Humanities Elec.	3 cr.
Beginning Psychology or higher	3 cr.
Human Anatomy	5 cr.
Electives	6 cr.
Total	17 cr.

Spring

English Composition II or Prof. Writing	3 cr.
Biology Elective	3 cr.
Biology Elective	4 cr.
Sociology	3 cr.
Total	13 cr.

Junior*Fall*

Human Physiology	5 cr.
Electives	9 cr.
Total	14 cr.

Spring

Biology Elective	3 cr.
Electives	12 cr.
Total	15 cr.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Senior*Fall*

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.
Pulmonary Cytology	
AHLT A432	3 cr.
Total	16 cr.

Spring

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	6 cr.
Investigations in Cytopathology	
AHLT A490	1-3 cr.
Total	18-20 cr.

Summer

Cytology of Fine Needle Aspiration	
AHLT A455	2 cr.
Total	2 cr.

Scholarships Students interested in scholarship information for the professional year should contact the program office.

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.

Graduation Requirements Satisfactory completion of 124 credit hours to include 90 credit hours of prerequisite and general education courses and 34 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Professor William Crabtree, Program Director, Cytotechnology Program. Telephone (317) 274-0040.

Course Descriptions

Cytotechnology

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.

AHLT 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.

AHLT A490 Investigations in Cytopathology

(1-3 cr.) P: AHLT A470. To provide the student with an experience in the realm of scientific investigation related to cytopathology. The investigation may be conducted as a research project (1-3 cr.) or as a literature review (1-2 cr.)

Health Information Management

Health Information Technology

Educational programs in health information technology are located on the following Indiana University campuses: Indiana University-Purdue University at Fort Wayne and Indiana University Northwest.

A program is being developed at Indiana University at Kokomo. For further information, contact Dr. Robert Roales, Coordinator for Allied Health. Telephone (317) 455-9371.

Description of the Profession A medical or health 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. Health information technicians are responsible for maintaining medical, scientific, and legal documents regarding a patient's injury or illness.

The health information technician is a vital member of the health care team. The entry-level medical record technician generally works in a medical record department of a hospital, ambulatory care, or other health care facility.

Graduates of the Program Some of the functions graduates perform are supervising within the medical record department; taking records to court; maintaining flow of health information to all departments of the hospital; compiling statistics, reviewing medical records for completeness and accuracy, coding and classifying diagnoses and procedures that directly impact hospital reimbursement; assigning diagnosis-related groups (DRGs); operating a tumor registry; assisting the medical staff by preparing special studies and tabulating data from records for research; and performing quality assessment studies, utilization management activities, and other quality assurance activities.

Credential Required to Practice After completion of the associate degree, the student is eligible to take the National Accreditation Examination of the American Record Technician (A.R.T.). To maintain the credentials, the accredited record technician must complete 20 hours of continuing education (CE) during a two-year cycle. This continues throughout the A.R.T.'s career.

ASSOCIATE OF SCIENCE IN MEDICAL RECORD TECHNOLOGY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE

Acting Program Director: Assistant Professor Ellison

EDUCATIONAL PROGRAM

This program is designed for both the full-time student and the part-time student. The core medical record technology courses are held in the evening to accommodate working students. Clinical experiences are completed during the summer as well as during specific semesters. The clinical experiences are usually held during the day. During one semester, the clinical experience is held on Saturdays.

Length of the Program The full-time student may complete this degree in two years while the part-time student may take up to five years to complete the degree.

Design of the Professional Curriculum The medical record technology courses are introduced by moving from basic knowledge to advanced concepts with appropriate practice reinforcement.

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 and alternate health care facilities in Allen and surrounding counties. The Medical Record Technology Program is designed to:

- Provide educational experiences to prepare students to achieve the Entry-level Competencies for Accredited Record Technicians as described by the American Medical Record Association and for entering a career as a medical record technician.
- Assist students in reaching their goals by providing academic, occupational, and personal guidance.
- Contribute to the liberal education of students by providing a core of general-education courses.
- Provide concentrated clinical experiences by a rotation schedule through the hospitals and alternate care facilities in the community to enhance the students' exposure to health care opportunities.

- Provide the health care community with individuals qualified to efficiently carry out the functions of the medical record discipline.
- Prepare the student to successfully write the National Accreditation Examination.
- Qualify graduates of the program for transfer to a college or university offering a baccalaureate degree in the field.

Program Facilities The Medical Record Technology Program office is located in Neff Hall at Indiana University–Purdue University at Fort Wayne. The classroom/laboratory is located at the Loughheed Building off campus. Clinical experience occurs in health care facilities located in Allen and surrounding counties.

Accreditation The program at Indiana University–Purdue University at Fort Wayne has made application to be accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Admission to the Medical Record Technology Program at the Fort Wayne campus is based upon the applicant's college or high school grade point average in science, business, English, and math; a personal interview; and past work experience.

Class Size 20 each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Medical Record Technology Program at Indiana University–Purdue University at Fort Wayne.

Application Deadline June 1 for fall semester.

Total Number of Prerequisite Credit Hours 12 semester hours.

Minimum Cumulative Grade Point Average 2.0 on a 4.0 scale.

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience Students who have not had experience in a medical record department are strongly encouraged to participate in some volunteer experience or seek employment in a medical record department.

CURRICULUM

Prerequisites

There are no college prerequisites prior to the beginning of the program.

Professional Program

Courses in the professional program are sequential and must be taken in the order specified by the program faculty.

Fall

Elementary Composition I	
ENG W131	3 cr.
Human Anatomy	
BIOL 203/215	3-4 cr.
Medical Terminology	
AHLT M195	3 cr.
Introductory Psychology I	
PSY P120	3 cr.
Info/Word Processing Systems	
BUFW C124	3 cr.
Total	15-16 cr.

Spring

Human Physiology	
BIOL 204/216	3-4 cr.
Introduction to Health Records	
AHLT M101	4 cr.
Introduction to Computers	
CS C106	3 cr.
Medical Transcription/Word Processing	
AHSP M109	2 cr.
Sociology	
SOC S161	3 cr.
Total	15-16 cr.

Summer Session I

Clinical Experience I AHLT M104	4 cr.
Total	4 cr.

Fall

Coding and Classification Systems	
AHLT M102	5 cr.
Clinical Experience II	
AHLT M105	5 cr.
Management in Health Information	
Technology AHLT M200	2 cr.
Health Statistics	
AHLT M120	2 cr.
Human Relations Supervision	
SPV 252	3 cr.
Total	17 cr.

Spring

Health Care Delivery and Quality Assessment	
AHLT M103	4 cr.
Clinical Experience III	
AHLT M106	2 cr.

Health Record Law	
AHLT M145	2 cr.
Pathophysiology	
BIOL 200	3 cr.
Fundamentals of Speech Communication	
COMM 114	3 cr.
Elective	3 cr.
Total	17 cr.

Suggested Electives Supervision, computer science, communication skills (written).

Students must maintain a grade point average of C (2.0 on a 4.0 scale) for all medical record technology professional courses.

Scholarships The Indiana Medical Record Association sponsors scholarships for second-year students in accredited medical record programs. Other scholarship opportunities may be available.

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

Graduation Requirements Satisfactory completion of 66 credit hours to include 12 credit hours of prerequisite and general-education courses and 54 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Assistant Professor Barbara A. Ellison, Acting Program Director, Medical Record Technology Program. Telephone (219) 481-6966.

ASSOCIATE OF SCIENCE IN MEDICAL RECORD TECHNOLOGY AT INDIANA UNIVERSITY NORTHWEST

Program Director: Associate Professor Skurka
Clinical Coordinator: Wellman
Adjunct Instructors: Coffman-Kadish, Wilson

EDUCATIONAL PROGRAM

Length of the Program The Health Information Technology Program is two years in length if the student attends on a full-time basis. Opportunities are available for progression through the program on a part-time basis.

Structure of the Program Health Information Technology core courses are offered primarily during the day. General-education courses are offered both day and evening.

Design of the Professional Curriculum Students accepted into the Health Information Technology Program begin the course of study in the fall semester. The curriculum consists of

general-education courses, technical courses in health information technology, and clinical experience in hospitals in the Lake County area. The Health Information Technology Program is designed to:

- Provide educational experiences to prepare students for beginning a career as a health information technician.
- Provide concentrated clinical experiences by a rotation schedule through the hospitals and other health care institutions in the community.
- Provide the medical community with individuals qualified to effectively carry out the functions of the health information discipline.
- Contribute to the liberal education of the students by providing a core of general-education courses.
- Qualify students for transfer to a college or university offering a baccalaureate degree in the field.
- Assist students in reaching their goals by providing academic, occupational, and personal guidance.

Program Facilities The Health Information Technology Program offices and classrooms are located in Hawthorn Hall at Indiana University Northwest. Clinical experience occurs in health care facilities located in Lake and Porter counties of Indiana and Cook County, Illinois.

Accreditation The Health Information Technology program of Indiana University Northwest is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Admission to the program is competitive; therefore, completion of the corequisites does not guarantee admission to the program.

Criteria Used for Selection of Class Students may apply for admission to the Health Information 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.

Class Size 22-24 students each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Health Information Technology Program at Indiana University Northwest.

Application Deadline March 15 of the year of anticipated entry.

Total Number of Prerequisite Credit Hours
This is a direct high school entry program.

Minimum Cumulative Grade Point Average
C (2.0 on a 4.0 scale).

Minimum Specific Grade Point Average The program computes a selected course grade point average based on courses the student may have taken that are required by the program.

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

There are no college course prerequisites prior to beginning the program.

Professional Program

Courses in the professional program are sequential and must be taken in the order specified by the program faculty.

First Year

Fall

Elementary Composition I	
ENG W131 (G).....	3 cr.
Human Anatomy and Physiology I	
PHSL P261 (G).....	4 cr.
Medical Terminology	
AHLT M195	3 cr.
Introductory Psychology I	
PSY P101 (G).....	3 cr.
Elective	3 cr.
Total	16 cr.

Spring

Human Anatomy and Physiology II	
PHSL P262	4 cr.
Introduction to Health Records	
AHLT M101	4 cr.
Introduction to Computers and Their Use	
CSCI C103	3 cr.
Computer Applications in Health Information Technology	
AHLT M107	3 cr.
Health Statistics	
AHLT M120	2 cr.
Total	16 cr

Summer Session

Clinical Experience I	
AHLT M104	4 cr.
Total	4 cr.

Second Year (Professional Program)

Fall

Coding and Classification Systems	
AHLT M102.....	5 cr.
Clinical Experience II	
AHLT M105	5 cr.
Health Record Law	
AHLT M145	2 cr.
Management in Health Information Technology	
AHLT M200	2 cr.
Principles of Sociology	
SOC S161	3 cr.
Total	17 cr.

Spring

Health Care Delivery and Quality Assessment	
AHLT M103.....	4 cr.
Clinical Experience III	
AHLT M106	2 cr.
Pathology AHSP R200	3 cr.
Organizational Behavior and Leadership	
BUS Z301	3 cr.
Public Speaking SPCH S121 (G)	3 cr.
Total	15 cr.

Suggested Electives Professional Skills, ENG W231, Computer Literacy A200.

Scholarships The Indiana Health Information Association sponsors scholarships for second-year students in accredited medical record programs. Other scholarship opportunities may be available.

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

Graduation Requirements Satisfactory completion of 67 credit hours to include 13 credit hours of general-education courses and 54 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Professor Skurka, Director, Medical Record Technology Program. Telephone (219) 980-6542.

Medical Record Administration

An educational program in medical record administration is located on the Indiana University-Purdue University at Indianapolis campus.

Description of the Profession The medical record administrator is a vital member of the health care team. This health care professional works with computerized health information systems in facilities that provide patient care.

The medical record administrator performs a variety of activities to assist all medical and health care professionals to carry out responsibilities with patients. Some examples of these are:

- Supervise medical record personnel who perform technical and clerical tasks, e.g., assemble and file medical records, code diseases and operative procedures, transcribe medical reports, abstract medical information for insurance companies and attorneys, and perform data entry into a computer system for collection of health information.
- Select and manage office resources.
- Plan and maintain a medical record system to meet specific requirements set forth by accrediting associations and federal and state law.
- Design medical record forms with physicians and health care givers.
- Select computerized systems for abstracting clinical data from the medical record.
- Analyze computerized clinical information for development of charts, graphs, and reports.
- Assist physicians in data collection for quality assurance of patient care.
- Maintain accurate and complete medical records for use in research, education, and medicolegal proceedings.

Graduates of the Program While most medical record administrators are employed in hospitals, others work for insurance companies, nursing homes, psychiatric facilities, computer companies, drug companies, and state and federal government. Other medical record administrators coordinate quality assurance programs for hospitals, teach in education programs, or maintain a consulting practice. All medical record administrators must be able to communicate effectively in various organizational settings and enjoy working with a variety of personnel in the medical, health care, insurance, and legal professions. The program graduate is eligible to seek registration as a Registered Record Administrator (RRA) by successfully passing a national qualifying examination offered by the American Medical Record Association. This registration (RRA) is an important credential when seeking employment as a Medical Record Administrator in the health care system.

Credentials Required to Practice RRA, Registered Record Administrator.

Licensure Requirements to Practice State licensure does not apply to graduates of the Medical Record Administration Program.

BACHELOR OF SCIENCE IN MEDICAL RECORD ADMINISTRATION AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT INDIANAPOLIS

Program Director: Associate Professor McKenzie

Assistant Professors: Ashton, Miller

Lecturers: Helbert, Gannaway, Thalheimer, Michau, Johnson

EDUCATIONAL PROGRAM

Length of Program Four years; 90 semester hours of prerequisite course work plus one year (38 semester hours) of professional course work. The professional component of the program is offered as the senior year of a Bachelor of Science undergraduate degree. It consists of two semesters beginning in the Fall Semester and ending with Summer Session I.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full time, day format only.

Design of the Professional Curriculum The professional courses focus on the management of the technical aspects of medical record systems and utilization of computerized clinical data abstracted from the patient's record. The professional component of the curriculum integrates lecture and laboratory courses with technical and administrative clinical experiences in a hospital or other health care settings. A four-week management affiliation is arranged for each student in Summer Session I.

Opportunity for Students to Work Many students accept part-time employment in local health care facilities while completing the prerequisites and the professional course work.

Program Facilities The Medical Record Administration Program is offered at the Indiana University Medical Center, 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. Clinical practice is centered in hospitals and other health care facilities in Indiana and surrounding states.

Accreditation The Medical Record Administration Program is accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class Grade point average and interview score.

Class Size 20 each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Medical Record Administration program at Indiana University-Purdue University at Indianapolis.

Application Deadline November 1 of the year preceding the planned date of entry.

Total Number of Prerequisite Credit Hours 90 semester hours.

Distribution of Credit Hours in Specific Areas See prerequisites.

Limitations of Course Work Remedial course work will not count toward the 90 hours of required prerequisite hours.

Minimum Cumulative Grade Point Average 2.5 on a 4.0 scale.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale) in anatomy, physiology, computer science, statistics, business administration, organizational behavior, and personnel management.

Interview All qualified applicants must participate in an interview. Interviews are conducted November through January.

Technical Standards See School of Allied Health Sciences technical standards.

Medical Requirements Admitted students must be able to present evidence of acceptable health status upon request.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with

their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

English Composition (G)	3 cr.
Business Communications	3 cr.
Additional Written	
Communication (G)	2-3 cr.
Mathematics (G)	3 cr.
Psychology (G)	3 cr.
Sociology (G)	3 cr.
Speech (G)	3 cr.
Ethics, Biomedical 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.
Introduction to Business	3 cr.
Introduction to Accounting I and II	6 cr.
Management and Behavior	
in Organizations	3 cr.
Personnel or Supervisory Management	3 cr.
Data Processing/Computer Sciences	3-4 cr.
Computer Literacy	1-3 cr.
Business/Commercial Law	3 cr.

Suggested Electives

The following suggestions for electives are made to aid the student in the courses and in the professional work of medical record administration: office management, personnel and/or supervisory management, methods of employee training, health administration, mathematics, computer sciences, research methods, oral and written communications, medical terms from Greek and Latin, foreign languages, abnormal psychology, chemistry, and biology.

A Suggested Plan of Study

The following is a suggested three-year plan of prerequisites. Variations of this schedule can be made. Students should check with their advisers to make sure all requirements are being met.

Freshman

Fall

English Composition I	3 cr.
Ethics	3 cr.
Beginning Psychology	3 cr.
Mathematics	3-5 cr.
Intro. Business Admin.	3 cr.
Total	15-17 cr.

Spring

Business Comm.	3 cr.
Sociology	3 cr.
Humanities Elective	3 cr.

Computer Science	3 cr.
or Computer Tech.	(4)
Elective	3 cr.
Total	15(16) cr.

Sophomore

Fall

Speech Communications or Interpersonal Comm.	3 cr.
Human Anatomy	5 cr.
Computer Science II or Computer Tech II	3 cr.
Intro. to Accounting I	3 cr.
Total	14 cr.

Spring

Humanities Elec.	3 cr.
Intro to Microbiology or Microbiology	3-4 cr.
Business Law	3 cr.
Business Communications or Prof. Writing	3 cr.
Elective	3 cr.
Total	15 (16) cr.

Junior

Fall

Human Physiology	5 cr.
Intro Accounting II	3 cr.
Personnel Psychology or Supervisory Management	3 cr.
Electives	5 cr.
Total	16 cr.

Spring

Statistics	3 cr.
Management and Behavior in Organizations	3 cr.
Electives	9 cr.
Total	15 cr.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Senior

Fall

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.
Total	18 cr.

Spring

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.
Total	16 cr.

Summer Session I

Clinical in Medical Record Administration AHLT M459	4 cr.
Total	4 cr.

Scholarships Van Ausdall and Farrar Scholarships are awarded to full-time senior students of the Medical Record Administration Program. Awards are predicated on the student's demonstrated financial need and ability to successfully complete the program. Preference is given to students who plan employment in Indiana.

The Dictaphone Scholarship is awarded annually to a full-time senior student of the Medical Record Administration Program. It is based on the student's demonstrated financial need.

The Gertrude L. Gunn Memorial Fund scholarship, established in memory of the founder of the program, is awarded to a senior medical record administration student. It is based on scholarship and demonstrated financial need.

The Indiana Medical Record Association annually awards three scholarships to students enrolled in medical record administration and medical record technology programs in Indiana. The scholarships are competitive and based on scholastic ability, leadership attributes, professionalism, and potential contribution to the medical record profession.

Awards Based upon superior performance and in accordance with Indiana University-Purdue University at Indianapolis policies, the program faculty will recommend that qualified students be awarded degrees with distinction.

Graduation Requirements Satisfactory completion of 128 credit hours to include 90 credit hours of prerequisite and general-education courses and 38 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Professor Mary L. McKenzie, Program Director, Medical Record Administration Program. Telephone (317) 274-7317.

Course Descriptions

Health Information Technology

AHLT M101 Introduction to Health Records (4 cr.) (Formerly MRS I) Introduction to the health care field, the hospital, and the medical record department. Overview of the medical record profession and professional roles. Review of the functions of the medical record department, its relationship to other departments, and the relationship to the medical staff. Study of the origin, uses, content, and format of health records, with emphasis on documentation requirements, numbering and filing systems, storage and retrieval systems, Intro to CPT coding principles, DRG reimbursement.

AHLT M102 Coding and Classification Systems (5 cr.) (Formerly MRS II) (Also proposing an increase of 1 credit hour from 4 cr. to 5 cr.) The study of ICD-9-CM coding and classification principles; CPT coding principles and a review of other classifications and nomenclatures. Review of the prospective payment system and DRG reimbursement. Review of indexes and registries including cancer registry programs.

AHLT M103 Health Care Delivery and Quality Assessment (4 cr.) (Formerly MRS III) Study of the quality and utilization management activities throughout the health care setting. Review of Medicare, DRG, and peer review organization activities throughout hospital, ambulatory, and long-term care settings. Review of health information systems, including systems analysis and data security. Review of licensing, accrediting, and regulatory agencies and record application for LTC, ambulatory care, and mental health.

AHLT M104 Clinical Experience I (4 cr.) (Formerly Directed Practice I) Clinical experience in health record processing procedures in the medical record department; storage and retrieval of medical records; technical analysis of the medical record; coding and indexing with CPT and word processing. Experience is at an area health care facility.

AHLT M105 Clinical Experience II (5 cr.) (Formerly Directed Practice II) Assignment is to area health care facilities and to the program medical record laboratory. Clinical experience in the areas of inpatient and ambulatory record coding, Medicare reimbursement, DRG's record deficiency systems, abstracting data, indices, and health information systems.

AHLT M106 Clinical Experience III (2 cr.) (Formerly Directed Practice III) Assignment is to area health care facilities and to the program medical record laboratory. Areas of clinical instruction include utilization and quality

management activities, supervisory duties, and health record systems in specialized hospitals, and long-term care and ambulatory care facilities.

AHLT M107 Computer Applications in Health Information Technology (3 cr.) (Also proposing an increase of 1 credit hour from 2 cr. to 3 cr.) Overview of microcomputers; introduction to software and hardware commonly used in automated medical record service departments. Includes instruction in medical transcription and word processing, spreadsheet, master patient index, correspondence management, record location, deficiency entry, and statistical software. Emphasis on independent use of equipment.

AHLT M120 Health Statistics (2 cr.) (Formerly Statistics for Medical Record Science) Study of the sources and uses of health data; computation of rates and percentages; vital records registration and reporting; and data reporting and display.

AHLT M145 Health Record Law (2 cr.) (Formerly Legal Aspects) Study of the basic concepts and principles of law and its application to the health care field, and specifically to the medical record department. Review of the laws dealing with confidentiality and release of information; liability of health care providers and other topics. Includes discussion of the judicial process.

AHLT M195 Medical Terminology (3 cr.) The study of the language of medicine, including word construction, definitions, and the use of terms; emphasis on speaking, reading, and writing skills.

AHLT M200 Management in Health Information Technology (2 cr.) (Formerly Office Organization) (Also proposing a decrease in credit hours from 3 cr. to 2 cr.) Study of supervisory functions and management styles, with application to medical record departments. Introduction to effective planning, organizing, and controlling, including employee supervision, productivity measurement and control, and organizational techniques.

AHSP M109 Medical Transcription/Word Processing (Lab) (2 cr.) (1 lecture hr., 2 lab hours) P:C124, M195. Practice in transcription and word processing of medical reports and correspondence related to the medical record. Emphasis on understanding, speed, skills in use of transcription, dictation, and word processing equipment.

Medical Record Administration

AHLT M322 Hospital Organization and Management (2 cr.) P: junior standing. 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.) P: BIOL N261, P215, and MICR J200 or equivalents. 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.) P: BUS L201 or L203. 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.

Occupational Therapy

An educational program in occupational therapy is located on the Indiana University-Purdue University at Indianapolis campus.

Description of the Profession Occupational therapy is the "therapeutic use of self-care, work, and play activities to increase independent function, enhance development, and prevent disability. It may include adaptation of task or environment to achieve maximum independence and to enhance quality of life." (American Occupational Therapy Association, 1986) Occupational therapists can choose to work in mental health, pediatrics, gerontology, physical disabilities, or other specialty areas.

Graduates of the Program The baccalaureate degree program in occupational therapy is designed to prepare the graduate to meet professional standards for occupational therapy practice. Upon completion of the program a graduate will be expected to demonstrate entry-level competence in basic knowledge and application of physical, behavioral, and medical sciences to the practice of occupational therapy. Graduates of the program will be able to sit for the national certification examination for the occupational therapist administered by the American Occupational Therapy Certification Board (AOTCB). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR).

Credential Required to Practice O.T.R., Occupational Therapist Registered

Licensure Requirements to Practice Most states have credentialing requirements. Graduates must take the responsibility to ascertain and conform to the specific credentialing requirements of the state in which they plan to practice. State credentialing requirements are usually based on the results of the certification exam.

ASSOCIATE OF SCIENCE IN OCCUPATIONAL THERAPY TECHNOLOGY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT INDIANAPOLIS

The associate degree in occupational therapy technology was discontinued with the class entering in fall 1989.

BACHELOR OF SCIENCE IN OCCUPATIONAL THERAPY AT INDIANA UNIVERSITY- PURDUE UNIVERSITY AT INDIANAPOLIS

Program Director: Associate Professor Hamant

Associate Professor Emerita: Simek

Associate Professors: Farber, Kiel, Nathan

Assistant Professors: Feinberg, Griswold,

Lamport, Poff, Stout, Swinehart

Clinical Assistant Professor: Hersch

Lecturer: Watson

Adjunct Associate Professor: Meyers

Adjunct Assistant Professor: Torrance

Adjunct Instructor: Levin

Adjunct Lecturers: Atkins, Hingtgen, Keesling, Stark

EDUCATIONAL PROGRAM

Length of the Program Four years; two years (61 semester hours) of prerequisite course work plus 24 months of professional course work.

Structure of the Professional Program Both the academic and fieldwork portions of the curriculum are designed as a full-time experience. While classes and clinicals are usually held during the day, part-time study is available by special arrangements.

Design of the Professional Curriculum

Students entering the Occupational Therapy Program in the fall of 1991 will attend three academic semesters, followed by a six-month clinical experience. The course work includes basic knowledge of development; medical conditions; technical, specific treatment oriented, and interpersonal communication skills; creative problem solving; understanding human performance as it relates to health needs, and beginning clinical practice (Fieldwork Level I). Following the academic course work are two, three-month, full-time training experiences (Fieldwork Level II) to provide integration of the academic material and further prepare the student for entry into the profession. For students entering the Occupational Therapy Program in the fall of 1992, the curriculum will be expanded to include three-and-one-half academic semesters. There will be a summer clinical experience between the junior and senior years and a six-month clinical experience beginning in March of the senior year. The curriculum content, while continuing to contain all of the subject matter required in an accredited occupational therapy program, will be

organized to emphasize the developmental continuum. This revised curriculum will place a greater emphasis on writing skills and research and will include a course to help students synthesize occupational therapy theory and practice.

Opportunity for Students to Work The class schedule for full-time occupational therapy students is rigorous; therefore, it is difficult for a student to pursue full-time employment during the fall and spring semesters. Part-time employment during the evening or weekend hours is possible for some students. Some work-study and volunteer positions are available in the occupational therapy departments and in the Occupational Therapy Program each semester.

Program Facilities The Occupational Therapy Department offices are located on the third floor of Coleman Hall. Classrooms are located in Coleman Hall, Ball Residence, and other buildings at the Medical Center. Level I fieldwork occurs in a variety of settings, including hospitals, rehabilitation centers, nursing homes, school systems, nontraditional sites, and other health care facilities. Level II fieldwork is directed toward physical and psychosocial dysfunction and may be located throughout the United States depending on the student's individual assignment.

Accreditation The Occupational Therapy Program is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Cumulative grade point average and personal interview.

Class Size 50 each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Occupational Therapy Program.

Application Deadline November 1 of the year prior to desired entry into the program.

Total Number of Prerequisite Credit Hours 61 semester hours.

Distribution of Credit Hours in Specific Areas See prerequisites.

Limitations of Course Work Remedial courses will not count toward the 61 prerequisite credit hours.

Minimum Cumulative Grade Point Average Requirement Residents, 3.0 on a 4.0 scale (applied at interview). Out-of-state students, 3.5 on a 4.0 scale.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview A personal interview is required for all qualified candidates. Interviews are conducted during the first week of January. Interview topics are highlighted in an interview letter sent to all applicants.

Technical Standards In addition to School of Allied Health Sciences technical standards, the Occupational Therapy Program has developed program specific technical standards. These standards are available upon request and are sent to all individuals applying to the program.

Indiana Residents Preference Policy See School of Allied Health Sciences policy. Out-of-state candidates must have a cumulative grade point average of 3.5 (on a 4.0 scale) to be considered eligible.

Volunteer Experience While volunteer experience is not required, the occupational therapy faculty strongly recommend that interested students seek clinical exposure prior to making application. A list of volunteer sites can be obtained from the Occupational Therapy Department. Also a tour of the occupational therapy clinics at the IU Medical Center can be scheduled through the department office.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. With the exception of laboratory courses and public speaking, prerequisites may be taken by correspondence. The code (G) indicates a course that meets the school's general-education requirements.

Written Communications (G).....	2 courses
Public Speaking (G).....	2-3 cr.
Philosophy or Ethics (G).....	3 cr.
Introductory Statistics (G)	3 cr.
Psychology (G).....	6 cr.
Abnormal Psychology.....	3 cr.

Sociology	3 cr.
Human Growth and Development (Discussion of the entire life span is preferred, but not required).	3 cr.
Introductory Chemistry (with lab)	4-5 cr.
Introductory Biology (G)	4-5 cr.
Anatomy (emphasis on the human anatomy; with laboratory)	4-5 cr.
Physiology (emphasis on the human physiology; with laboratory)	3-5 cr.
A math prerequisite may be required for specific statistics courses.	

Suggested Electives The following electives, while not inclusive or mandatory, are suggested: developmental anatomy, anthropology, business, community health, computer science, creative arts, government, group dynamics, philosophy, sociology, special education, teaching methods, and typing.

Note: A course in medical terminology is required for graduation from the Occupational Therapy Program with a baccalaureate degree. If a course in medical terminology is taken prior to admission to the professional curriculum, it does not have to be repeated. In addition, papers prepared with a word processor are required during the professional curriculum. Students who enter the program with this skill will not be required to participate in the word processing tutorials that occur in the program.

A Suggested Plan of Study

Freshman

Fall

English Composition	3 cr.
Ethics	3 cr.
Elem. Chemistry	5 cr.
Intro to Zoology	4 cr.
Total	15 cr.

Spring

Human Anatomy	5 cr.
Speech Comm.	3 cr.
Algebra and Trig or higher	3 cr.
Beginning Psychology	3 cr.
Total	14 cr.

Sophomore

Fall

Sociology	3 cr.
Written Comm.	3 cr.
Human Physiology	5 cr.
Psychology Electives	3 cr.
Electives	3 cr.
Total	17 cr.

Spring

Life Span Psychology	3 cr.
Abnormal Psychology	3 cr.
Statistics	3 cr.

Electives	6 cr.
Total	15 cr.

Professional Program

For students entering the Occupational Therapy Program in fall 1991

Junior

Fall

Medical Terminology AHLT S103	1 cr.
Fundamentals of OT AHLT T203	3 cr.
OT Techniques I (Weaving, Ceramics) AHLT T348	1 cr.
OT Techniques II (Woodworking) AHLT T349	1 cr.
Occupational Behavior and Human Development AHLT T350	5 cr.
Functional Neuroanatomy AHLT T450	3 cr.
Medical Care I AHLT W374	3 cr.
Total	17 cr.

Spring

Clinical Psychiatry for OT AHLT T373	2 cr.
Fieldwork Level I-A; Practicum Experience AHLT T325	1 cr.
OT Techniques III (Minor Crafts) AHLT T351	1 cr.
OT Techniques IV (Daily Life Skills) AHLT T352	2 cr.
Psychosocial Dysfunction Theory and Practice I AHLT T361	2.5 cr.
Physical Dysfunction Theory and Practice I AHLT T362	2.5 cr.
OT Writing and Interview Skills AHLT T363	1 cr.
Kinesiology AHLT W376	3 cr.
Medical Care II AHLT W471	3 cr.
Total	18 cr.

Senior

Fall

OT Techniques V (Splinting) AHLT T353	1 cr.
Fieldwork Level I-B; Practicum Experience AHLT T426	1 cr.
Management of OT Services AHLT T460	3 cr.
Psychosocial Dysfunction Theory and Practice II AHLT T461	3 cr.
Physical Dysfunction Theory and Practice II AHLT T462	3 cr.
Introduction to Research in Occupational Therapy AHLT T463	1 cr.
Group Process in OT AHLT T471	2 cr.
Medical Care III AHLT W472	2 cr.
Electives—Students may elect Topics OT AHLT T453	1-5 cr.
Total	16-21 cr.

Spring

Fieldwork Level II-A AHLT T495	5 cr.
(Three-month internship scheduled January, February, and March)	

Fieldwork Level II-B

AHLT T4965 cr.
(Three-month internship scheduled April,
May, and June)

Total.....**10 cr.**

Students must successfully complete a first aid class and a CPR class that have written examinations prior to beginning Fieldwork Level II (AHLT T495, AHLT T496). If either of the classes is a graded class, the course grade must be acceptable according to the Occupational Therapy Program Performance Policies. If a documented physical problem makes a person incapable of performing the activities in either or both of these two areas, the person must be able to pass the written examinations required in the course.

For students entering the Occupational Therapy Program in fall 1992

Junior*Fall*

Medical Terminology AHLT T173 cr.
Occupational Therapy Media I
(Woodworking) AHLT T3411 cr.
Occupational Therapy Media II (Ceramics)
AHLT T3441 cr.
Fundamentals of Occupational Therapy
AHLT T3602 cr.
Intro to Research in Occupational Therapy
AHLT T3691 cr.
Clinical Psychiatry AHLT T3732 cr.
Medical Care I AHLT W3743 cr.
Functional Neuroanatomy AHLT T3753 cr.
Total.....**14 cr.**

Spring

Occupational Therapy Media III (Minor Crafts)
AHLT T3471 cr.
Professional Writing in Occupational Therapy
AHLT T3571 cr.
Psychosocial Theory and Practice I
AHLT T3613 cr.
Physical Dysfunction Theory and Practice I
AHLT T3623 cr.
Concepts of Occupational and Human
Development I AHLT T3652 cr.
Kinesiology AHLT T3763 cr.
Medical Care II AHLT W4713 cr.
Total.....**16 cr.**

Summer

Fieldwork Level I-A, Practicum Experience
AHLT T3251 cr.

Senior*Fall*

Techniques of Occupational Performance
AHLT T4523 cr.
Techniques of Splinting in Occupational
Therapy AHLT T4551 cr.
Psychosocial Theory and Practice II
AHLT T4613 cr.

Physical Dysfunction Theory and Practice II
AHLT T4624 cr.
Concepts of Occupational and Human
Development II AHLT T4652 cr.
Group Process in Occupational Therapy
AHLT T4572 cr.
Total.....**15 cr.**

Spring

Fieldwork Level I-B, Practicum Experience
AHLT T4261 cr.
Management of Occupational Therapy
Services AHLT T4583 cr.
Synthesis of Occupational Theory/Practice
AHLT T4693 cr.
Electives1-5 cr.
Fieldwork Level II-B AHLT T4955 cr.
(Three-month internship scheduled April,
May, and June)
Fieldwork Level II-B AHLT T4965 cr.
(Three-month internship scheduled July,
August, and September)
Total**18-22 cr.**

Students must successfully complete a first aid class and a CPR class that have written examinations prior to beginning Fieldwork Level II (AHLT T495, AHLT T496). If either of the classes is a graded class, the course grade must be acceptable according to the Occupational Therapy Program Performance Policies. If a documented physical problem makes a person incapable of performing the activities in either or both of these two areas, the person must be able to pass the written examinations required in the course.

Scholarships In addition to financial assistance obtained through the IUPUI Student Financial Aid Office, there are scholarship and grant opportunities available through the Occupational Therapy Program.

For scholarship and grant opportunities specific to occupational therapy, the student may seek information from the program director following admission to the Occupational Therapy Program.

Awards The program faculty will recommend students with superior academic performance 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 to 1981.

Graduation Requirements For students entering in fall 1991, satisfactory completion of 122 credit hours to include 61 credit hours of prerequisite and general-education courses and 61 credit hours of professional courses.

For students entering in fall 1992, satisfactory completion of 124 credit hours: 61 prerequisite credit hours and 63 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

MASTER OF SCIENCE IN OCCUPATIONAL THERAPY AT INDIANA UNIVERSITY- PURDUE UNIVERSITY AT INDIANAPOLIS

The Master of Science degree is designed to provide a specialized educational experience for occupational therapists intending to advance in practice. The curriculum follows the scientist-practitioner model providing education in specific clinical specialties reinforced through scientific inquiry. Areas of emphasis include neurorehabilitation, psychosocial rehabilitation, geriatric, and pediatric occupational therapy with additional concentrations under development.

Course Requirements The graduate program consists of a minimum of 33 semester hours. Students have the option to enroll on a part-time basis. The program is a collaborative effort between the basic medical and health sciences and the Occupational Therapy Program at Indiana University.

With the help of an adviser, each student designs a course of study relevant to the individual's long-range goals.

Minimum Requirements for the Degree 6 to 12 credit hours in advanced discipline skills, 3 to 9 credit hours in basic medical or health sciences, 8 credit hours in the allied health sciences research core, 6 credit hours of thesis work, and 3 to 6 credit hours in electives for a minimum of 33 credit hours total.

Admission Requirements Admission to the program is competitive and includes the following:

1. Baccalaureate degree in occupational therapy from an accredited college or university.
2. Licensure or eligibility for licensure as an occupational therapist.
3. Record of undergraduate achievement. Grade point average must be at least 3.0 on a 4.0 scale.
4. Acceptable performance on the Graduate Record Examination
5. Two letters of recommendation describing clinical and research potential, assessing the individual's potential for making contributions to the discipline, and indicating the individual's potential to perform as a graduate student.

Exceptions to these provisions may be granted by the Allied Health Graduate Studies Committee upon written petition from the applicant with written recommendation from the director of the Occupational Therapy Program. The petition must include a full statement of conditions justifying the exception. Conditional admission will be for a stated time period and will specify the conditions to be met to receive regular admission status.

No student shall be permitted to work toward a degree without first having been admitted to the Master of Science program. A maximum of 6 graduate credit hours earned at Indiana University prior to admission may be applied toward a degree. Upon recommendation of the Occupational Therapy Program director and with the approval of the Allied Health Graduate Studies Committee, up to 8 credit hours of work taken for graduate credit at other institutions may be transferred in partial fulfillment of degree requirements. No course may be transferred from another institution unless the course was completed with a grade of B or better within five years prior to the matriculation in the Master of Science degree program. Following notice of admission, an applicant shall have two calendar years in which to enroll.

The applicant must submit a completed application form to the chairman, Allied Health Studies Graduate Committee, along with two copies of transcripts from all universities attended. Indiana University graduates should request that the Registrar's Office send unofficial copies of their transcripts. Non-Indiana University graduates must submit at least one official transcript from each university attended. A nonrefundable application fee is required. Applications and further information may be obtained by writing to the address given below.

Director, Occupational Therapy Program
School of Allied Health Sciences
Indiana University School of Medicine
1140 West Michigan Street
Indianapolis, Indiana 46202-5119

All applicants are required to take the Graduate Record Examination General Test. Information concerning this examination may be obtained from Graduate Record Examinations, Educational Testing Service, CN 6000, Princeton, New Jersey 08541-6000. Applications are available in the IUPUI Graduate Office, located in the Union Building, Room A101.

Grades A minimum of a B (3.0) average in graduate work is required for continuance in

graduate study. When the grade point average of a student falls below 3.0, or the student is not making sufficient progress toward the degree, the Allied Health Graduate Studies Committee will review and recommend to the dean that the student be placed on probation. Unless the student brings this record up to a 3.0 grade point average, or begins making satisfactory progress in the next semester of enrollment, the student will not ordinarily be allowed to continue in the graduate program. For more information about academic regulations, refer to the School of Medicine Bulletin.

For further information, contact Professor Cel Hamant, Program Director, Occupational Therapy Program. Telephone (317) 274-8006.

Course Descriptions

Occupational Therapy

AHLT S103 Medical Terminology (1 cr.)

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

AHLT T173 Medical Terminology (1 cr.)

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

AHLT T203 Fundamentals of Occupational Therapy (3 cr.) C: AHLT T348. 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 T325 Fieldwork Level I-A; Practicum Experience (1 cr.) (1991) P: AHLT T203, (1992) P: AHLT T360. Clinical observation and practice of the occupational therapy skills and theory presented in OT theory and OT technique courses. Attendance at a weekly seminar is required.

AHLT T341 Occupational Therapy Media I (1 cr.) Laboratory course that provides supervised learning experiences in the therapeutic use of selected media (ceramics and off-loom weaving).

AHLT T344 Occupational Therapy Media II (1 cr.) Laboratory course that provides supervised learning experiences utilizing woodworking as a therapeutic modality.

AHLT T347 Occupational Therapy Media III (1 cr.) P: AHLT T360. 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, and needlework).

AHLT T348 Occupational Therapy Techniques I (1 cr.) C: AHLT T203.

Laboratory course that provides occupational therapy students supervised learning experiences in the therapeutic use of selected media (ceramics and off-loom weaving).

AHLT T349 Occupational Therapy Techniques II (1 cr.) Laboratory course that provides supervised learning experiences utilizing woodworking as a therapeutic modality.

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 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, needlework.)

AHLT T352 Occupational Therapy Techniques IV (2 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.) Lecture and laboratory course that provides supervised learning experiences in the construction of splints and their use as a therapeutic modality.

AHLT T357 Professional Writing in Occupational Therapy (1 cr.) P: AHLT T173 and AHLT T360. Instruction and practice of professional documentation and letter-writing skills necessary in the practice of occupational therapy.

AHLT T360 Fundamentals of Occupational Therapy (2 cr.) Material presented as a foundation for the development of the clinical aspects of occupational therapy practice. Emphasis is on the philosophy of using activity as a basis of treatment.

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 T361 Psychosocial Dysfunction Theory and Practice I (3 cr.) P: AHLT T360. C: AHLT T362 and AHLT T365 or instructor permission. A developmental approach to psychiatric occupational therapy process including frames of reference and diagnostic categories applicable to infancy through childhood.

AHLT T362 Physical Dysfunction Theory and Practice I (2.5 cr.) P: AHLT T350 and AHLT T203. Principles of occupational therapy evaluation and treatment for selected diagnostic categories in the area of occupational disabilities.

AHLT T362 Physical Dysfunction Theory and Practice I (3 cr.) P: AHLT T360. C: AHLT T361 and AHLT T365 or instructor permission. Developmental approach to principles of occupational therapy evaluation and treatment of physical disabilities as seen in infancy through childhood.

AHLT T363 Occupational Therapy 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 T365 Concepts of Occupation and Human Development I (2 cr.) C: AHLT T361 and AHLT T362 or instructor permission. Investigation of the dynamic interrelationships among the biological, psychological, and sociological aspects of human development and its impact upon occupational behavior and performance applicable from infancy through childhood.

AHLT T369 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 T373 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 T375 Functional Neuroanatomy (3 cr.) Major functional concepts of neuroanatomy presented in longitudinal systems with implications for abnormality and subsequent therapy treatment.

AHLT T376 Kinesiology for the Occupational Therapist (3 cr.) P: AHLT T375 or Instructor Permission. Principles of human movement including analysis or biomechanics, musculoskeletal function, and general intervention strategies. Emphasis is on methods to improve movement quality in functional performance.

AHLT T426 Fieldwork Level II-B; Practicum Experience (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. Attendance at a weekly seminar is required.

AHLT T450 Functional Neuroanatomy (3 cr.) Major functional concepts of neuroanatomy presented in longitudinal systems with implications for abnormality and subsequent therapy treatment.

AHLT T452 Techniques of Occupational Performance (3 cr.) C or P: AHLT T361 and AHLT T376. Lecture and laboratory experiences in this course provide the occupational therapy student with supervised learning experiences that emphasize maximum patient/client independence in the occupational performance areas of independent living skills, work, and play/leisure.

AHLT T453 Topics in Occupational Therapy (1-5 cr.) Special electives in occupational therapy offered by occupational therapy faculty and clinicians. Students may repeat this course as desired as long as the topic changes each time it is repeated. Permission required. Prerequisites may vary with topic. Honors credit may be available.

AHLT T455 Techniques of Splinting in Occupational Therapy (1 cr.) Lecture and laboratory course that provides supervised experiences in the construction of splints and their use as a therapeutic modality.

AHLT T457 Group Process in Occupational Therapy (2 cr.) P: AHLT T361 (2) and AHLT T373. Principles of group content and process related to occupational therapy.

AHLT T458 Management of Occupational Therapy Services (3 cr.) P: Senior standing in the professional program or instructor permission. Study of the occupational therapist's role in service management and the health care system. Professional values, attitudes, and standards are emphasized.

AHLT T460 Management of Occupational Therapy Services (3 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 (3 cr.) P: AHLT T300 and AHLT T361. Evaluation and treatment techniques used in occupational therapy as related to specific frames of reference and diagnostic categories.

AHLT T461 Psychosocial Dysfunction Theory and Practice II (3 cr.) P: AHLT T373. C: AHLT T462 and AHLT T465 or instructor permission. Developmental approach to psychiatric occupational therapy process including frames of reference and diagnostic categories applicable to adolescence through adulthood.

AHLT T462 Physical Dysfunction Theory and Practice II (3 cr.) P: AHLT T362 and AHLT T450. Principles of occupational therapy evaluation and treatment in physical disabilities based on sensory motor theories.

AHLT T462 Physical Dysfunction Theory and Practice II (4 cr.) P: AHLT T375. C: AHLT T461 and AHLT T465 or Instructor Permission. Developmental approach to principles of occupational therapy evaluation and treatment of physical disabilities in adolescence through adulthood.

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 T465 Concepts of Occupational and Human Development II (2 cr.) C: AHLT T461 and AHLT T462 or instructor permission. Investigation of the dynamic interrelationships among the biological, psychological, and sociological aspects of human development and its impact upon occupational behavior and performance applicable from adolescence through adulthood.

AHLT T469 Syntheses of Occupational Therapy Theory/Practice (3 cr.) P: Senior standing in professional program and faculty

approval. Students will design and implement a project aimed at synthesis of OT theory and practice under the mentorship of an individual OT faculty member. The proposal for the project is to be developed during the fall semester of the student's senior year.

AHLT T471 Group Process in Occupational Therapy (2 cr.) P: AHLT T300 and AHLT T361. Principles of group content and process related to occupational therapy.

AHLT T480 Topics in Occupational Therapy (1-5 cr.) Special electives in occupational therapy offered by occupational therapy faculty and clinicians. Students may repeat this course as long as the topic changes each time it is repeated. Permission required. Prerequisites vary with topic. Honors credit may be available.

AHLT T495 Fieldwork Level II-A (5 cr.) P: Successful completion of all professional courses. A three-month internship in psychosocial or physical dysfunction occupational therapy facilities.

AHLT T496 Fieldwork Level II-B (5 cr.) P: Successful completion of all professional courses. A three-month internship in psychosocial or physical dysfunction occupational therapy facilities.

Physical Therapy

An educational program in physical therapy is located on the Indiana University–Purdue University at Indianapolis campus.

Description of Profession As members of the health care team, physical therapists help restore clients to normal functioning 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 that 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, and private practice settings.

Graduates of Program The educational experiences of the Physical Therapy Program curriculum are designed to graduate a physical therapist with skills as a generalist. Graduates of the program are eligible to apply for licensure in the state in which they will practice.

Credential Required to Practice P.T., Physical Therapist.

Licensure Requirements to Practice All states require that an individual graduate from an accredited physical therapy program and successfully complete the licensure examination in order to practice as a physical therapist. Some states have requirements in addition to these such as an oral or practical examination.

BACHELOR OF SCIENCE IN PHYSICAL THERAPY AT INDIANA UNIVERSITY– PURDUE UNIVERSITY AT INDIANAPOLIS

Program Director: Associate Professor Porter
Professors Emeriti: Ekstam, Ladue, Magee
Associate Professor: Bruckner
Assistant Professor: Avila, Trimble

EDUCATIONAL PROGRAM

Length of the Program Four years; two years (60 semester hours) of prerequisite course work plus 22 months (76 semester hours) of professional course work.

Structure of the the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full-time, day format only.

Design of the Professional Curriculum The physical therapy curriculum is organized so that the lecture and laboratory course work is integrated with patient care experiences. Full-time clinical rotations 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. The curriculum focuses on the management of patient problems rather than procedures. The graduate of the Physical Therapy Program demonstrates competencies in physical therapy and the basic skills of research, administration, and teaching, and shows the ability and interest to continue professional development.

Opportunity for Students to Work Because of the intense nature of the program, the majority of the students do not seek outside employment during their enrollment.

Facilities Physical Therapy Program offices are located in Indianapolis at Coleman Hall within the Medical Center complex on the IUPUI campus. Lecture and laboratory classes are located in Coleman Hall, Ball Annex, and other buildings at the Medical Center.

Accreditation The Physical Therapy Program is fully accredited by the Commission on Accreditation in Physical Therapy Education, American Physical Therapy Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Admission into the School of Allied Health Sciences Physical Therapy Program is based on the overall grade point average, the

mathematics and science grade point average, and an interview.

Class Size 32 each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Physical Therapy Program.

Application Deadline October 15 of the year prior to anticipated entry.

Total Number of Prerequisite Credit Hours 60 semester hours.

Distribution of Credit Hours in Specific Areas Students must complete 17 credit hours of the prerequisite mathematics and science course work by January 1 of the year of anticipated entry into the program.

Limitations of Course Work Remedial courses may not be counted in the 60 prerequisite credit hours; statistics, human anatomy, human physiology, chemistry, and physics must be completed no more than seven years prior to date of entry.

Minimum Cumulative Grade Point Average 3.0 on a 4.0 scale. The minimum grade point average must be met at the time of application and maintained until admission.

Minimum Specific Grade Point Average 3.0 on a 4.0 scale in all credit hours attempted in mathematics and science. The minimum grade point average must be met at the time of application and maintained until admission.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview All qualified applicants must participate in an interview. Interviews are conducted in December and January. Applicants must meet a minimum performance standard.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy. Nonresident, direct transfer applicants will be considered for admission only if the class cannot be filled with applicants who are residents of Indiana or who have completed the majority of applicable course work at a college or university in Indiana.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

Additional Requirements Accepted applicants and applicants on the alternate list must maintain the following:

- a 2.0 grade point average in each semester following notification of their status;
- a minimum cumulative grade point average of 3.0 on a 4.0 scale in all attempted credit hours; and,
- a minimum grade point average of 3.0 on a 4.0 scale in all credit hours in mathematics and science.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. The co:Je (G) indicates a course that meets the school's general-education requirements. Listed credit hours are minimums.

Written Communication (G) 2 courses.....	4 cr.
Verbal Communication (G).....	2 cr.
Social Behavioral Sciences (G) 2 courses.....	6 cr.
(Both courses are to be selected from the same area: Psychology or Sociology or Social Anthropology.)	
Introductory Statistics (G)	3 cr.
Human Anatomy (G) one course with laboratory.....	3 cr.
Human Physiology (G) one course with laboratory.....	3 cr.
Chemistry—one course with a laboratory.....	3 cr.
(Level of the course must be appropriate for science majors.)	
Physics—two courses with laboratory	8 cr.
(Level of the courses must be appropriate for science majors.)	
Ethics or Philosophy—one course.....	2 cr.
Humanities Elective (G) one course.....	2 cr.

Suggested Electives Any courses from Liberal Arts.

A Suggested Plan of Study

Freshman

Fall

English	3 cr.
Chemistry.....	5 cr.
Math.....	3 cr.
Humanities Elective	3 cr.
Total	14 cr.

Spring

Verbal Communications	3 cr.
Human Anatomy	5 cr.
Math.....	3 cr.
Ethics	3 cr.
Total	14 cr.

Sophomore

Fall

Social Behavioral Science.....	3 cr.
Physics.....	5 cr.
Human Physiology.....	5 cr.
Elective.....	3 cr.
Total.....	16 cr.

Spring

Statistics.....	3 cr.
Social Behavioral Science.....	3 cr.
Physics.....	5 cr.
English.....	3 cr.
Elective.....	2 cr.
Total.....	16 cr.

Professional Program

The professional curriculum is under revision. Contact the Physical Therapy Program for information.

Scholarships 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.

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

Graduation Requirements Satisfactory completion of 136 credit hours to include 60 credit hours of prerequisite and general-education courses and 76 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

MASTER OF SCIENCE IN PHYSICAL THERAPY AT INDIANA UNIVERSITY- PURDUE UNIVERSITY AT INDIANAPOLIS

The Master of Science degree is designed to provide a specialized educational experience for physical therapists intending to advance in practice. The curriculum follows the scientist-practitioner model providing education in specific clinical specialties reinforced through scientific inquiry. Areas of emphasis include neurological, orthopaedic/sports, geriatric, and pediatric physical therapy with additional concentrations under development.

Course Requirements The graduate program consists of a minimum of 33 semester hours. Students have the option to enroll on a part-time basis. The program is a collaborative

effort between the basic medical and health sciences and the Graduate Physical Therapy Program at Indiana University.

With the help of an adviser, each student designs a course of study relevant to the individual's long-range goals.

Minimum requirements for the degree include 6 to 12 credit hours in advanced discipline skills, 3 to 9 credit hours in basic medical or health sciences, 8 credit hours in the allied health sciences research core, 6 credit hours of thesis work, and 3 to 6 credit hours in electives, for a minimum of 33 credit hours total.

Admission Requirements Admission to the program is competitive and includes the following:

1. Baccalaureate degree in physical therapy from an accredited college or university.
2. Licensure or eligibility for licensure as a physical therapist.
3. Record of undergraduate achievement. Grade point average must be at least 3.0 on a 4.0 scale.
4. Acceptable performance on the Graduate Record Examination.
5. Two letters of recommendation describing clinical and research potential, assessing the individual's potential for making contributions to the discipline, and indicating the individual's potential to perform as a graduate student.

Exceptions to these provisions may be granted by the Allied Health Graduate Studies Committee upon written petition from the applicant with written recommendation from the director of the Graduate Physical Therapy Program. The petition must include a full statement of conditions justifying the exception. Conditional admission will be for a stated time period and will specify the conditions to be met to receive regular admission status.

No student shall be permitted to work toward a degree without first having been admitted to the Master of Science program. A maximum of 6 graduate credit hours earned at Indiana University prior to admission may be applied toward a degree. Upon recommendation of the Graduate Physical Therapy Program director and with the approval of the Allied Health Graduate Studies Committee, up to 8 credit hours of work taken for graduate credit at other institutions may be transferred in partial fulfillment of degree requirements. No course may be transferred from another institution unless the course was completed with a grade of B or better within 5 years prior to matriculation in the Master of Science degree

program. Following notice of admission, an applicant shall have 2 calendar years in which to enroll.

The applicant must submit a completed application form to the chairman, Allied Health Studies Graduate Committee, along with 2 copies of transcripts from all universities attended. Indiana University graduates should request that the Registrar's Office send unofficial copies of their transcripts. Non-Indiana University graduates must submit at least one official transcript from each university attended. A non-refundable application fee is required.

Applications and further information may be obtained by writing to the following address: Director, Graduate Physical Therapy Program School of Allied Health Sciences Indiana University School of Medicine 1140 West Michigan Street Indianapolis, Indiana 46202-5119

All applicants are required to take the Graduate Record Examination General Test. Information concerning this examination may be obtained from Graduate Record Examinations, Educational Testing Service, CN 6000, Princeton, New Jersey 08541-6000.

Applications are available in the IUPUI Graduate Office, located in the Union Building, Room A101.

Grades A minimum of a B (3.0) average in graduate work is required for continuance in graduate study. When the grade point average of a student falls below 3.0, or the student is not making sufficient progress toward the degree, the Allied Health Graduate Studies Committee will review and recommend to the dean that the student be placed on probation. Unless the student brings this record up to a 3.0 grade point average, or begins making satisfactory progress in the next semester of enrollment, the student will not ordinarily be allowed to continue in the graduate program. For more information about academic regulations, refer to the School of Medicine Bulletin.

For further information, contact Professor Rebecca Porter, Director, Graduate Physical Therapy Program. Telephone (317) 274-8913.

Course Descriptions

Courses in physical therapy are being revised.

Radiation Therapy

An educational program in radiation therapy is located on the Indiana University–Purdue University at Indianapolis campus.

An educational program in radiation therapy is being developed at Indiana University Northwest. Contact the administrative office of the School of Allied Health Sciences on the Indiana University Northwest campus for further information. Telephone (219) 980-6542.

Description of the Profession Radiation therapy involves the use of differing forms of ionizing radiation for the treatment of benign and malignant tumors. Radiation therapists administer the prescribed dose of ionizing radiation to specific sites of the patient's body as directed by the physician. They operate varied types of equipment, including high energy linear accelerators, and work with radioactive materials. In addition, radiation therapists observe the clinical progress of the patient undergoing radiation therapy, observe the first signs of any complication, and determine when treatment should be withheld until a physician may be consulted.

Graduates of the Program At the completion of the prerequisite general-education requirements and the professional core, the student is awarded a certificate of completion in radiation therapy technology. A baccalaureate degree is granted to those students completing the graduation requirements. Following the awarding of the certificate, the graduate is eligible to take the radiation therapy certification exam given by the American Registry of Radiologic Technologists (ARRT). Having successfully passed this exam, the certificate holder is classified as a Registered Radiation Therapy Technologist R.T.(T)(ARRT).

Licensure Required to Practice Licensure of radiation therapists is not required in Indiana, but licensure requirements are mandated in some states.

BACHELOR OF SCIENCE IN RADIATION THERAPY AT INDIANA UNIVERSITY– PURDUE UNIVERSITY AT INDIANAPOLIS

Medical Director: Associate Professor Shidnia
Program Director: Assistant Professor Dunn
Assistant Professor: Schneider

EDUCATIONAL PROGRAM

Length of the Program The Radiation Therapy Program is a four-year baccalaureate

degree program and has two tracks: one for the non-radiographer and one for the radiographer. For the non-radiographer the program is composed of 54 credit hours of prerequisite and general-education requirements and a 22-month professional core in the junior and senior years. For the radiographer, the program includes an additional 13-15 credits of general-education requirements and a 16-month professional core.

Program Structure The classroom and clinical experiences are provided Monday through Friday from 8 a.m. to 4:30 p.m. with continuous enrollment during the professional core.

Opportunity for Students to Work Students often seek employment in part-time positions outside the program, which must be balanced with evening study.

Program Facilities The professional core classes and laboratories are offered in the Radiation Oncology Department at the Medical Center on the Indiana University–Purdue University at Indianapolis campus. The clinical experiences are provided at Indiana University Hospitals located at the Indiana University Medical Center in Indianapolis, Community Hospitals of Indiana (North and East) in Indianapolis, and St. John's Medical Center in Anderson, Indiana.

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

ADMISSION–NON-RADIOGRAPHER

General Information

Admission into the School of Allied Health Sciences Radiation Therapy Program is based on an admission index that is composed of a cumulative grade point average, the mathematics and science grade point average, and an interview.

Specific Requirements

In addition to the School of Allied Health Science admission policies found at the beginning of the bulletin, the following admission policies apply to the Radiation Therapy Program.

Application Deadline December 1 of the year prior to the desired entry into the program.

Minimum Number of Prerequisite Credit Hours 54 semester hours.

Minimum Cumulative Grade Point Average
Requirement 2.3 on a 4.0 scale.

Minimum Specific Grade Point Average
Science and math grade point average of 2.3
(on a 4.0 scale) by the end of the fall semester
of the application year.

**Minimum Grade Requirement in a
Prerequisite Course** C (2.0 on a 4.0 scale) in
specific life and physical science prerequisite
courses.

Interview All qualified applicants must
participate in an interview. Interviews are held
in January.

Technical Standards See School of Allied
Health Sciences technical standards.

Indiana Residents Preference Policy See
School of Allied Health Sciences policy.

Volunteer Experience The student must
observe in a radiation oncology facility prior to
the interview.

CURRICULUM–NON-RADIOGRAPHER

Prerequisites

The following prerequisite course of study
must be completed to be eligible for admission
into the professional program. Students should
consult with their academic advisers for
appropriate courses and semester sequence in
order to complete prerequisites. Prerequisites
may be taken at any accredited college or
university. The code (G) indicates a course that
meets the division's general-education
requirements.

General-Education Areas

Verbal Communications (G)	2-3 cr.
Written Communications (G)	4-6 cr.
Humanities Elective (G)	3 cr.
Social/Behavioral Science Elective (G)	3 cr.
Introductory Psychology (G)	3 cr.
College Algebra and Trigonometry	5-6 cr.
General Physics (with lab) (G)	4-5 cr.
Human Anatomy (with lab)	4-5 cr.
Basic Life Science Elective	4-5 cr.

Suggested Electives (to bring total credits up to
54) The number of elective courses will differ
for each student to complete a total of 54 credit
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
course work for graduation.

A Suggested Plan of Study

Freshman

Fall

English Composition	3 cr.
Humanities	3 cr.
Algebra and Trig	3 cr.

Elem. Chemistry I or Princ. of Chem. I	5 cr.
Total	14 cr.

Spring

Speech Communications or Interpersonal Comm.	3 cr.
Algebra and Trig	3 cr.
Beginning Psychology	3 cr.
Human Anatomy	5 cr.
Total	14 cr.

Sophomore

Fall

English Comp. II or Prof. Writing Skills	3 cr.
Human Physiology	5 cr.
Electives	5 cr.
Total	13 cr.

Spring

Social/Behavioral Science Elective	3 cr.
General Physics	4-5 cr.
Electives	6 cr.
Total	13(14) cr.

Professional Program

Summer Session II (Junior)

Patient Care in Radiologic Sciences AHLT R104	2 cr.
Introduction to Clinical Radiography AHLT R103	2 cr.
Medical Terminology AHLT R185	1 cr.
Total	5 cr.

Fall (Junior)

Principles of Radiography I AHLT R102	3 cr.
Simulation/Treatment Procedures AHLT J300	6 cr.
Radiation Oncology Patient Care AHLT J304	2 cr.
Clinical Dosimetry	AHLT J305 3 cr.
Clinical Experience Basic AHLT J350	3 cr.
Total	17 cr.

Spring (Junior)

Physics Applied to Radiology AHLT R250	3 cr.
Radiation Oncology Techniques I AHLT J302	3 cr.
Clinical Oncology I AHLT J303	3 cr.
Quality Control and Assurance AHLT J404	2 cr.
Clinical Practicum I AHLT J351	2 cr.
Total	13 cr.

Summer Session I (Junior)

Radiation Oncology Techniques II AHLT J402	3 cr.
Clinical Practicum II AHLT J450	3 cr.
Total	6 cr.

Summer Session II (Senior)

Computer Science for Allied Health	
CSCI 205	2 cr.
Clinical Practicum III	
AHLT J451	3 cr.
Total	5 cr.

Fall (Senior)

Physics of Radiation Oncology	
AHLT J400	2 cr.
Clinical Oncology II	
AHLT J403	3 cr.
Quality Control and Assurance II	
AHLT J405	2 cr.
Radiobiology and Hyperthermia	
AHLT J406	1 cr.
Clinical Practicum IV	
AHLT J452	3 cr.
Total	11 cr.

Spring (Senior)

Physics of Radiation Oncology	
AHLT J401	2 cr.
Senior Project in Radiation Oncology	
AHLT J409	3 cr.
Clinical Practicum V	
AHLT J453	3-6 cr.
Business or Education	
Elective	3-6 cr.
Total	11-17 cr.

ADMISSION-RADIOGRAPHER**Specific Requirements**

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Radiation Therapy program.

Application Deadline December 1 of the year prior to desired entry into the program.

Minimum Number of Prerequisite Credit

Hours Satisfactorily complete general-education and technical specialty requirements.

Minimum Cumulative Grade Point Average

2.3 on a 4.0 scale.

Minimum Specific Grade Point Average

Science or math grade point average of 2.3 (on a 4.0 scale) by the end of the fall semester of the application year. The student must attain a cumulative grade point average of 2.3 for all radiologic technology courses.

Minimum Grade Requirement in a Stated Prerequisite Course 2.3 on a 4.0 scale.

Interview All qualified applicants must participate in an interview. Interviews are held in January.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience The student must observe in a radiation oncology facility prior to the interview.

CURRICULUM-RADIOGRAPHER**Prerequisites-Radiographer**

The following prerequisite course of study must be completed for the student to be eligible for admission into the professional program. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the division's general-education requirements.

Written Communications

(Two courses) (G)	4-6 cr.
College Algebra and Trigonometry (G)	5-6 cr.
Physics (G)	4-5 cr.

Technology Specialty Supply evidence of registration in radiography by the American Registry in Radiologic Technologists (ARRT) or completion of a radiography program accredited by the Committee on Allied Health and Accreditation of the American Medical Association (CAHEA).

The technical specialty area is complete for applicants who have completed an associate or baccalaureate degree in radiography.

Students who received their technical training in noncredit awarding programs and who have full credentials in radiography (ARRT) may be awarded credit for their credentials and experiences and/or petition to test out of technical specialty courses.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Fall (Junior)

Orientation to Radiation Oncology	
AHLT J301	3 cr.
Radiation Oncology Patient Care	
AHLT J304	2 cr.
Clinical Dosimetry AHLT J305	3 cr.
Physics of Radiation Oncology I	
AHLT J400	2 cr.
Clinical Practicum I AHLT J351	2 cr.
Total	12 cr.

Spring (Senior)

Physics of Radiation Oncology II	
AHLT J401	2 cr.
Radiation Oncology Techniques	
AHLT J302	3 cr.
Clinical Oncology I	
AHLT J303	3 cr.

Quality Control and Assurance	
AHLT J404	2 cr.
Clinical Practicum II	
AHLT J450	3 cr.
Total	13 cr.

Summer Session I (Senior)

Radiation Oncology Techniques II	
AHLT J402	3 cr.
Clinical Practicum III	
AHLT J451	3 cr.
Total	6 cr.

Summer Session II (Senior)

Computer Science for Allied Health	
CSCI 205	2 cr.
Clinical Practicum IV	
AHLT J452	3 cr.
Total	5 cr.

Fall (Senior)

Clinical Oncology II	
AHLT J403	3 cr.
Quality Control and Assurance II	
AHLT J405	2 cr.
Radiobiology and Hyperthermia	
AHLT J406	1 cr.
Senior Project in Radiation Oncology	
AHLT J409	3 cr.
Clinical Practicum V	
AHLT J453	3 cr.
Business or Education	
Electives	3-6 cr.
Total	15-18 cr.

Scholarships Some hospitals and employers offer financial assistance for students pursuing radiation therapy.

Graduation Requirements for Baccalaureate Degree

To be eligible for graduation with a baccalaureate degree, students must successfully complete the general-education requirements, technical specialty (radiographers), and professional core in radiation therapy technology. They must also achieve clinical competency in each area identified in the essential requirements. The code (G) indicates a course that meets the division's general-education requirements.

For further information, contact Professor Donna Dunn, Program Director, Radiation Therapy Technology Program. Telephone (317) 274-1302.

Course Descriptions

Radiation Therapy Technology

AHLT J300 Simulation/Treatment Procedures (6 cr.) P: AHLT R103; AHLT R104; AHLT R185. Lecture and laboratory sessions emphasizing the clinical utilization of simulators and treatment machines.

AHLT J301 Orientation to Radiation

Oncology (3 cr.) P: R.T.(R). An overview of radiation oncology and the role of the radiation therapist. Presentations will orient the student to the equipment, procedures, and techniques utilized in the field.

AHLT J302 Radiation Oncology Techniques I

(3 cr.) P: R.T.(R) or AHLT R102, J300, and J350. Lecture and laboratory sessions presenting concepts of treatment-planning techniques of head, pelvis, spine, lung, and brain. To include implant localization techniques.

AHLT J303 Clinical Oncology (3 cr.)

P: R.T.(R) or AHLT R102, and AHLT J300. Examines the roles and principles of tumor pathology, surgical oncology, radiation oncology, and medical oncology. To include the characteristics, growth patterns, and treatment modalities utilized for tumors of the lung and central nervous system.

AHLT J304 Radiation Oncology Patient Care

(2 cr.) P: R.T.(R) or AHLT R104. Concepts of radiation oncology patient care, including considerations of patient's physical and psychological condition. Factors influencing patient's general health during and following a course of radiation therapy treatments will be identified.

AHLT J305 Clinical Dosimetry (3 cr.)

P: MATH 147 and 148 or MATH 150. Review of fundamental mathematics concepts as they relate to practical dosimetry and performing routine calculations pertaining to patient setup and treatment.

AHLT J350 Clinical Experience: Basic (3 cr.)

P: AHLT R103, AHLT R104, and AHLT R185. Clinical observation and assistance in the clinical skills of radiation therapy technology, under the direct supervision of a registered radiation therapy technologist.

AHLT J351 Clinical Practicum I (2 cr.)

P: R.T.(R) or AHLT J350. Clinical application of patient positioning immobilization, block fabrication, patient simulation techniques, treatment delivery, dosimetry, treatment planning, patient care management, and radiation protection, under the direct supervision of a registered radiation therapy technologist.

AHLT J400 Physics of Radiation Oncology I

(2 cr.) P: R.T.(R) or AHLT R250; MATH 147 and 148 or MATH 150; PHYS P201 and P218. Fundamental principles of the physical quantities of radiation and atomic and nuclear theory. To include discussions of radiation oncology equipment.

AHLT J401 Physics of Radiation Oncology II

(2 cr.) P: AHLT J400. Continuation of J400 with emphasis on the interactions of ionizing radiation with matter; radiation detection and

measurement devices; radiation units; equipment calibration brachytherapy and calculation techniques. Principles and concepts of radiation protection are discussed.

AHLT J402 Radiation Oncology Techniques II (3 cr.) P: AHLT J302. Lecture and laboratory sessions presenting concepts of treatment-planning techniques of breast, esophagus, mantel and inverted-Y, pituitary, total body and hemi-body, and common palliative portals.

AHLT J403 Clinical Oncology II (3 cr.)
P: R.T.(R) and J303 or R104, R185, R102, J300, and J303. Examines the characteristics, growth patterns, and treatment modalities utilized for tumors of the female genital, urological, male genital, breast, head and neck, bone and soft tissue, hematopoietic, alimentary tract, lymphorecticular, and pediatric sites. Student case presentations required.

AHLT J404 Quality Control and Assurance I (2 cr.) P: AHLT J302, AHLT J303, AHLT J305, AHLT J351, AHLT J450, and AHLT J451. Identification of the principles and concepts of the team approach to quality assurance. Includes spot checking techniques of patient records, room conditions, accessory checks, patient communication devices, and treatment equipment. Lab included.

AHLT J405 Quality Control and Assurance II (2 cr.) P: AHLT J404. Continuation of J404 with emphasis on quality control checks for linear accelerators, cobalt-60 units, film, and brachytherapy inventory. Includes lab.

AHLT J406 Radiobiology and Hyperthermia (1 cr.) Emphasis on the principles of cell response to radiation factors that influence radiation effect; tissue sensitivity; and relationships of dose, time, and fractionation.

To include the theory, biology, heating methods, thermometry, and clinical application of hyperthermia.

AHLT J409 Senior Project in Radiation Oncology (3 cr.) Individual research in radiation oncology. Research proposal requires the approval of the program director.

AHLT J450 Clinical Practicum II (3 cr.)
P: AHLT J351. Clinical application of patient positioning immobilization, block fabrication, patient simulation techniques, treatment delivery, dosimetry, treatment planning, patient care management, and radiation protection, under the direct supervision of a registered radiation therapy technologist.

AHLT J451 Clinical Practicum III (3 cr.)
P: AHLT J450. Clinical application of patient positioning immobilization, block fabrication, patient simulation techniques, treatment delivery, dosimetry, treatment planning, patient care management, and radiation protection, under the direct supervision of a registered radiation therapy technologist.

AHLT J452 Clinical Practicum IV (3 cr.)
P: AHLT J451. Clinical application of patient positioning immobilization, block fabrication, patient simulation techniques, treatment delivery, dosimetry, treatment planning, patient care management, and radiation protection, under the direct supervision of a registered radiation therapy technologist.

AHLT J453 Clinical Practicum V (3 cr.)
P: AHLT J452. Clinical application of patient positioning immobilization, block fabrication, patient simulation techniques, treatment delivery, dosimetry, treatment planning, patient care management, and radiation protection, under the direct supervision of a registered radiation therapy technologist.

Radiologic Sciences

Radiography

Educational programs in radiography are located on the following Indiana University campuses: Indiana University—Purdue University at Indianapolis, Indiana University Northwest at Gary, Indiana University at South Bend, and Indiana University—Purdue University at Fort Wayne.

A program is being developed at Indiana University at Kokomo. Contact Dr. Robert Roales, Allied Health Coordinator on the Kokomo campus, for further information. Telephone (317) 455-9371.

Description of the Profession 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. Radiographers make up the largest group of imaging professionals. Their principal duties consist of performing X-ray examinations of patients. They also assist in fluoroscopic examinations and in special radiographic procedures. Tasks performed by radiographers vary. The technologists must be able to handle seriously ill and injured patients to obtain the maximum amount of information without injury to the patient and with the least amount of pain and discomfort from the examination. They may assist the radiologist, a specially trained physician, in some complex procedures, often involving the injection of opaque media through needles or catheters. Technologists must be well trained and experienced in aseptic techniques, requiring skills often comparable to those of nurses in some specialties. Most technologists are employed in hospitals, clinics, and physicians' offices.

Graduates of the Program Graduates receive an Associate of Science degree and are eligible to take the certification examination of the American Registry of Radiologic Technologists (ARRT) to become certified as a Registered Radiographer, R.T.(R).

Credential Required to Practice R.T.(R) Registered Radiographer.

Indiana Certification Requirements to Practice State certification is required to operate an X-ray machine. The state accepts the ARRT registry for certification.

ASSOCIATE OF SCIENCE IN RADIOGRAPHY AT INDIANA UNIVERSITY— PURDUE UNIVERSITY AT INDIANAPOLIS

Program Director: Associate Professor Hernandez

Medical Director: Professor Holden
Coordinator Baccalaureate Degrees: Assistant Professor Kehrein

Associate Professor: Long

Assistant Professors: Baker, Kosegi, Rafert

Lecturers: Cox, Davis

EDUCATIONAL PROGRAM

Length of the Program A new class begins in late June of each year and continues for 24 months, including all summer sessions.

Structure of the Program The two-year curriculum of the associate option is based on a combination of professional courses, general-education courses, and clinical experience. Students are responsible to the program for professional classes and clinical experience from 8 a.m. to 4 p.m., Monday through Friday. Students are also required to participate in clinical experience on eight Saturday mornings and during approximately four weeks of evening rotations and one holiday during the 24-month period. Indiana University holidays are observed. A minimum of four weeks of vacation time is scheduled each year.

Design of the Professional Curriculum The lecture material and the clinical experiences are integrated.

Opportunity for Students to Work Some part-time employment is available in the radiology department at the Indiana University Medical Center.

Program Facilities The Radiography Program is offered in Indianapolis at the Indiana University Medical Center. The program offices, classrooms, and laboratory facilities are located on the first floor of the Clinical Building. 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 at the Indiana University Medical Center in Indianapolis.

Accreditation The associate degree program in radiography is fully accredited by the Committee on Allied Health Education and

Accreditation of the American Medical Association.

ADMISSION

General Information

Students accepted into the program must complete the school's and the following programmatic admission requirements prior to the first day of classes. Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class

Admission to the associate degree program is based upon the applicant's academic background and a personal interview.

Class Size 40 each June (beginning of Summer Session II).

Specific Requirements

In addition to the School of Allied Health Sciences admission policies and requirements found at the beginning of the bulletin, the following apply to the Radiography Program.

Application Deadline December 1 of the year prior to anticipated entry in the program.

Total Number of Prerequisite Credit Hours

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 Radiography Program.

Minimum Qualifications Applicants must meet minimum academic requirements to be considered for admission to the Radiologic Technology option. These minimum requirements may be completed in high school or through college course work. Refer to the minimum criteria identified below.

Applicants With High School Background or General Educational Development (GED) Certificate

All applicants applying directly from high school must meet all of the standard criteria and be eligible for regular admission to IUPUI. Those not meeting the standard criteria in one or more areas may substitute the corresponding alternate criteria.

Standard Criteria

1. Completion of a college preparatory high school curriculum in the following areas:
 - 8 semesters of English
 - 4 semesters of laboratory science
 - 4 semesters of mathematics (algebra, geometry, etc.)
 - 10 semesters of additional academic courses
2. Scholastic Aptitude Test
 - Minimum scores: 400 Verbal and 400 Math
 - or high school rank in the upper 30 percent.

3. Minimum cumulative grade point average of 3.0 on a 4.0 scale.
4. Minimum cumulative math/science grade point average of 3.0 on a 4.0 scale.
5. An admission math placement score necessary to be admitted to MATH 111 (IUPUI course) or higher.
6. Applicants with a General Educational Development (GED) certificate will not be considered for direct admission and must seek admission using alternate criteria.

Alternate Criteria

1. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. If the high school preparation lacks the minimum number of semesters in one or more areas, the above credit hours must include course work in that area.
2. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. A 2.3 cumulative grade point average must be achieved.
3. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. A 2.3 cumulative grade point average must be achieved.
4. Completion of at least 4 college credit hours of course work in math or science, and a cumulative math/science grade point average of 2.0 on a 4.0 scale for all math/science course work.
5. Completion of remedial math courses that would prepare the student for entry into MATH 111 (IUPUI course).
6. Completion of one semester as a full-time college student (12 credit hours) or completion of 18 total credit hours as a part-time student. Completion of one college math course and one college science course. The overall grade point average must be 2.3 on a 4.0 scale, and a C grade must be attained in the science and math courses.
 - Note: The science and math courses do not need to be a part of the 12-credit semester.

Applicants with College Background These criteria are to be used by all applicants with a college background even though they qualify by high school record.

Criteria

1. Meet minimum high school qualifications or alternate criteria.
2. Have a minimum cumulative grade point average of 2.3 on a 4.0 scale for all courses attempted in a college setting. If more than one college has been attended, a combined cumulative grade point average will be determined and must be 2.3. These averages

must be achieved before an interview will be scheduled.

3. Have a science/math cumulative grade point average of 2.0 on a 4.0 scale if any of these courses have been taken.

All of the above represent minimum criteria that will qualify the applicant for completion of the admission process. With the exception of the grade point averages, applicants may be in the process of meeting the criteria when they apply and will be considered, provided the minimum criteria can be met before the first enrollment of the class to which application is being made.

Interview Each qualified applicant must participate in an interview. Interviews are scheduled during February.

Technical Requirements See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience The Admissions Committee urges all interested applicants to spend time observing in a radiology department. If you cannot arrange to do so at a local hospital by calling the chief technologist and indicating your desire to learn more about the field, a time can be scheduled in one of the Medical Center hospital departments.

CURRICULUM

Prerequisites

There are no college prerequisites.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty. The code (G) indicates a course that meets the division's general-education requirements.

First Year

Summer Session II

Patient Care in Radiologic Sciences	
AHLT R104	2 cr.
Introduction to Clinical	
Radiography AHLT R103	2 cr.
Medical Terminology AHLT R185	1 cr.
Total	5 cr.

Fall

Radiographic Procedures I	
AHLT R101	4 cr.
Principles of Radiography 1	
AHLT R102	3 cr.
Clinical Experience: Basic I	
AHLT R181	2 cr.
Algebra MATH 111 (G)	4 cr.
Human Biology BIOL N212 (G)	2 cr.
Human Biology BIOL N213 (G)	1 cr.
Total	16 cr.

Spring

Radiographic Procedures II	
AHLT R201	3 cr.
Principles of Radiography 2	
AHLT R202	3 cr.
Clinical Experience: Basic II	
AHLT R182	3 cr.
Human Biology BIOL N214 (G)	2 cr.
Human Biology BIOL N215 (G)	1 cr.
Physics Applied to Radiology	
AHLT R250	3 cr.
Total	15 cr.

Second Year

Summer Session I

Clinical Experience:	
Orthopedic Radiography	
AHLT R281	3 cr.
Total	3 cr.

Summer Session II

Clinical Experience:	
Orthopedic Correlation	
AHLT R281	2 cr.
Total	2 cr.

Fall

Principles of Radiography 3	
AHLT R222	3 cr.
Experiments and Quality Control	
AHLT R253	1 cr.
Clinical Experience:	
Abdominal Radiography	
AHLT R282	3 cr.
Clinical Experience:	
Abdominal Correlation	
AHLT R282	2 cr.
English Composition	
ENG W131 (G)	3 cr.
Speech Communication COMM C110 or	
COMM C180 (G)	3 cr.
Total	15 cr.

Spring

Radiation Biology and Protection	
in Diagnostic Radiology	
AHLT R260	1 cr.
Radiographic Procedures III	
AHLT R205	3 cr.
Clinical Experience:	
Pediatric/Special Radiography	
AHLT R283	3 cr.
Clinical Experience:	
Pediatric/Special Correlation	
AHLT R283	2 cr.
Pathology AHLT R200	2 cr.
Social/Behavioral Science	
Elective (G)	3 cr.
Total	14 cr.

Summer Session I

Comprehensive Experience	
AHLT R290	1 cr.
Total	1 cr.

Awards The faculty 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.

Graduation Requirements Satisfactory completion of 71 credit hours to include 19 credit hours of graduation requirements and 52 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Professor Emily Hernandez, Program Director, Radiography Program. Telephone (317) 274-3801.

ASSOCIATE OF SCIENCE IN RADIOGRAPHY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT FORT WAYNE

Medical Directors: Halaby, Mattison

Program Director: Ehinger

Adjunct Instructors: Eagleson, Lewis, Brehm, Thorn, Doerffler

EDUCATIONAL PROGRAM

Length of Program The Radiography Program is a 24-month, full-time day program. The curriculum is designed to prepare the student for a career as a radiographer within the medical community. The didactic and clinical experiences are correlated with each other throughout the 24-month program.

Program Facilities Professional courses and clinical experiences are conducted at St. Joseph Medical Center and Parkview Hospital. Each institution provides a classroom large enough for 25 students with wheelchair accessibility. The radiology departments of both institutions are utilized for the clinical experiences, as well as laboratory experimentation. General-education courses are taught on the IPFW campus.

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

ADMISSION

General Information

Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class Grade point average, interview, and references.

Class Size 10-15 students (dependent on number of procedures performed annually at each institution). Class size is determined annually by the Advisory Committee.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following admission policies apply to the Radiologic Technology Program at Indiana University-Purdue University at Fort Wayne.

Application Deadline May 15 of the year of anticipated entry.

Limitations of Course Work General-education courses must be taken within the past five years, or a letter requesting acceptance of the previously earned credits must be submitted to the Admissions Committee. The committee will evaluate the request on an individual basis and may require the student to take a validation examination.

Minimum Cumulative Grade Point Average

High School: 2.5 grade point average on a 4.0 system or 6.85 on a 12.0 system rank in upper half of class; 800 SAT. College: Students with 12 or more college credit hours must have a 2.5 grade point average on a 4.0 system. This average is calculated on courses applicable to the program. Students must complete the program admission testing, have a personal interview, and provide references.

Minimum Grade Requirement in a Stated Prerequisite Course A grade of C (2.0 on a 4.0 scale) must be achieved in all professional courses and the following general-education courses: Human Anatomy and Physiology I and II and Introduction to Computers.

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Medical Requirements Successful completion of a complete physical. A medical form is given to each student to be completed by the physician.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

The general-education courses are not required to be completed prior to admission; however, their completion is strongly recommended.

Algebra and Trigonometry I

Human Anatomy and Physiology I

Human Anatomy and Physiology II

Elementary Composition I

Introduction to Computers

Elementary Psychology

Fundamentals of Speech Communication

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Orientation to Radiologic Technology

AHLT R100

Medical Terminology AHLT R185

Radiographic Procedures I AHLT R101

Principles of Radiography 1 AHLT R102

Clinical Experience I AHLT R181

Radiographic Procedures II AHLT R201

Principles of Radiography 2 AHLT R202

Clinical Experience II AHLT R182

Clinical Experience III AHLT R281

Radiographic Procedures III AHLT R205

Principles of Radiography 3 AHLT R222

Clinical Experience IV AHLT R282

Pathology AHLT R200

Radiation Biology and Protection in

Diagnostic Radiology AHLT R260

Physics Applied to Radiology AHLT R250

Clinical Experience V AHLT R283

Comprehensive Experience AHLT R290

Awards Outstanding Student Award, Highest Academic Performance Award.

Graduation Requirements Satisfactory completion of 70 credit hours to include 21 credit hours of general-education courses and 49 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Suzanne Ehinger, Program Director. Telephone (219) 481-6967.

ASSOCIATE OF SCIENCE IN RADIOGRAPHY AT INDIANA UNIVERSITY NORTHWEST

Medical Director: Gustaitis

Program Director: Associate Professor Adler

Assistant Professor: Ledbetter

Adjunct Clinical Instructors: Collins, Jones, Mosqueda, O'Donnell, Thegze, Wilson

EDUCATIONAL PROGRAM

Length of the Program 24 months beginning in late June.

Structure of the Program The Radiography Program is a full-time, day program involving classroom and laboratory experiences on campus and clinical experiences at local hospitals.

Design of the Professional Curriculum The curriculum follows a pattern designed to train the student to become adept in the performance of diagnostic radiologic procedures. Courses in radiologic principles, radiographic procedures, clinical application of theory, and general education are included in the curriculum. The Radiologic Technology Program curriculum objectives are designed to:

- Provide educational experiences to prepare students for entering careers as radiographers.
- Provide concentrated clinical experiences by a rotation schedule through the hospitals in the community.
- Provide the medical community with individuals qualified to perform radiographic procedures.
- Contribute to the liberal education of students by providing a core of general-education courses.
- Qualify students for transfer to a college or university offering a baccalaureate degree in the field.
- Assist students in reaching their goals by providing academic, occupational, and personal guidance.
- Instill in students a lifelong desire to achieve professional and academic excellence.

Program Facilities The Radiography Program offices and classrooms are located in Hawthorn Hall at IU Northwest. Clinical experiences occur in local hospitals, including The Community Hospital in Munster, St. Margaret Hospital in Hammond, Saint Mary Medical Center in Hobart, and Methodist Hospital of Gary, Inc., in Gary and Merrillville.

Accreditation The Radiography Program is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students may apply for admission to the Radiography Program after qualifying for regular admission to Indiana University. Admission to the professional program is competitive; therefore, completion of the

application does not guarantee admission to the program.

Criteria Used for Class Selection Admission to the program is based upon each applicant's high school and/or college course work, and a personal interview.

Class Size 30 each June.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies and requirements found at the beginning of the bulletin, the following apply to the Radiography Program at Indiana University Northwest.

Application Deadline March 15 of the year of anticipated entry.

Total Number of Prerequisite Credit Hours

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, and a second year of algebra are recommended.

Minimum Cumulative Grade Point Average

A high school grade point average of 2.0 on a 4.0 scale is required for admission into the Radiography Program. The college grade point average will be used if the applicant has completed a minimum of 12 credit hours with at least one math or science course on the transcript. This requirement is implemented by the program admissions committee when the incoming class of students is selected from the applicant pool.

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences policy.

Medical Requirements Documentation of completion of a physical examination is required prior to beginning clinical experience.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Prerequisites

Prior to beginning professional course work, all students must complete the program's math requirement with a C (2.0) or better.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Courses coded with (G) meet school general-education requirements.

First Year

Summer Session II

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

Fall

Orientation to Radiologic Technology AHLT R100	2 cr.
Radiographic Procedures I AHLT R101	3 cr.
Principles of Radiography 1 AHLT R102	3 cr.
Clinical Experience I AHLT R181	2 cr.
Human Anatomy and Physiology I PHSL P261 (G).....	4 cr.
Medical Terminology AHLT R185	1 cr.
Total.....	5 cr.

Spring

Radiographic Procedures II AHLT R201	3 cr.
Principles of Radiography 2 AHLT R202	3 cr.
Clinical Experience II AHLT R182	4 cr.
Human Anatomy and Physiology II PHSL P262	4 cr.
Total.....	14 cr.

Summer Sessions

Clinical Experience III AHLT R281	4 cr.
Total.....	4 cr.

Second Year

Fall

Radiographic Procedures III AHLT R205	3 cr.
Principles of Radiography 3 AHLT R222	3 cr.
Physics Applied to Radiography AHLT R250	3 cr.
Clinical Experience IV AHLT R282	4 cr.
English Composition ENG W131(G).....	3 cr.
Total.....	16 cr.

Spring

Radiobiology and Protection AHLT R260	2 cr.
Pathology AHLT R200	3 cr.
Clinical Experience V AHLT R283	4 cr.
Introductory Psychology PSY P101 (G).....	3 cr.
Communication Requirement SPCH S121 or S122 (G).....	3 cr.
Total.....	15 cr.

Summer Sessions

Comprehensive Experience	
AHLT R290	4 cr.
Total.....	4 cr.

Awards The program faculty 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.

Graduation Requirements Satisfactory completion of 72 credit hours to include 21 credit hours of prerequisite and general-education courses and 57 credit hours of professional courses. All course work must be completed in compliance with the program’s and school’s academic and professional policies.

For further information, contact Professor Adler, Director, Radiologic Technology Program. Telephone (219) 980-6542.

**ASSOCIATE OF SCIENCE
IN RADIOGRAPHY AT INDIANA
UNIVERSITY AT SOUTH BEND**

Program Director: Assistant Professor Walters
Clinical Coordinator: Lecturer Topolski

EDUCATIONAL PROGRAM

Length of the Program 24-month, full-time, day program.

Structure of the Program The prerequisites may be taken on a part-time basis; the professional program is presented in a full-time, day format only.

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

Program Facilities The program facilities of the Radiography Program affiliated with the Indiana University at South Bend campus are located at Memorial Hospital, School of Nursing Building, 120 Navarre Street, South Bend, Indiana. The general-education courses are taught at the IUSB campus on Mishawaka Avenue. Clinical experiences occur in local hospitals, including Memorial Hospital and Michiana Community Hospital.

Accreditation The Radiography Program is seeking initial accreditation by the Committee

on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Students may apply for admission to the Radiography Program after qualifying for regular admission to Indiana University.

Criteria Used for Selection of Class

Admission to the program is based upon each applicant’s high school and/or college course work and a personal interview.

Class Size 20 students each fall semester.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies and requirements found at the beginning of the bulletin, the following apply to the Radiography Program at Memorial Hospital.

Application Deadline March 15 of the year of anticipated entry in the program.

Total Number of Prerequisite Hours No college courses are required.

Distribution of Credit Hours in Specific Areas

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.

Minimum Cumulative Grade Point Average

A high school minimum grade point average of 2.0 on a 4.0 scale is required for admission into the Radiography Program. This policy is implemented by the program admissions committee when the incoming class of students is selected from the applicant pool.

Interview All qualified applicants must participate in an interview.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience While volunteer experience is not required, it is very helpful in making a career choice.

CURRICULUM

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty. The code (G) indicates a course that meets the school’s general-education requirements.

First Year*Summer Session II*

Excursions into Mathematics MATH M 110	3 cr.
Total	3 cr.

Fall

Orientation to Radiologic Technology AHLT R100	2 cr.
Radiographic Procedures I AHLT R101	3 cr.
Principles of Radiography I AHLT R102	3 cr.
Clinical Experience I AHLT R181	2 cr.
Elementary Human Anatomy I ANAT A210	4 cr.
Medical Terminology AHLT R185	1 cr.
Total	15 cr.

Spring

Radiographic Procedures II AHLT R201	3 cr.
Principles of Radiography II AHLT R202	3 cr.
Clinical Experience II AHLT R182	4 cr.
Elementary Human Physiology I PHSL P204	5 cr.
Total	15 cr.

Summer Sessions

Clinical Experience III AHLT R281	4 cr.
Total	4 cr.

Fall

Radiographic Procedures III AHLT R205	3 cr.
Principles of Radiography III AHLT R222	3 cr.
Physics Applied to Radiography AHLT R250	3 cr.
Clinical Experience IV AHLT R282	4 cr.
English Composition ENG W131	3 cr.
Total	16 cr.

Spring

Radiology and Protection AHLT R260	2 cr.
Pathology AHLT R200	3 cr.
Introductory Psychology PSY P103	3 cr.
Clinical Experience AHLT R283	4 cr.
Public Speaking S121	3 cr.
Total	15 cr.

Summer Session I

Comprehensive Experience AHLT R290	4 cr.
Total	4 cr.

Awards The program faculty 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.

Graduation Requirements Satisfactory completion of 72 credit hours to include 21 credit hours of prerequisite and general-education courses and 51 credit hours of

professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Professor Walters, Director, Radiography Program. Telephone (219) 284-7084.

Medical Imaging Technology

An educational program in Medical Imaging Technology is located on the Indiana University-Purdue University at Indianapolis campus.

Description of the Profession The medical imaging technologist in radiologic sciences is a skilled radiographer qualified to provide patient service in vascular and interventional procedures, computed tomography, ultrasonography, and magnetic resonance imaging. These areas represent the most advanced imaging in diagnostic radiology. Effective medical imaging technologists 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.

Graduates of the Program Graduates receive a Bachelor of Science degree and are eligible to take specialty examinations depending on their major area of concentration.

Credentials Required to Practice

R.T.(R)(ARRT) Registered Radiographer.

Indiana Certification Requirements to Practice

State certification is required to operate an X-ray machine. The state accepts the ARRT Registry for Certification.

BACHELOR OF SCIENCE IN MEDICAL IMAGING TECHNOLOGY AT INDIANA UNIVERSITY-PURDUE UNIVERSITY AT INDIANAPOLIS

Medical Director: Professor Holden

Program Director: Associate Professor Hernandez

Coordinator, Baccalaureate Degrees: Assistant Professor Kehrein

Associate Professor: Long

Lecturer: Cox

EDUCATIONAL PROGRAM

This program is designed to prepare qualified medical imaging technologists. The principal aim of the major is to provide students with educational experiences that will permit them to develop the competencies required to function effectively as advanced imaging technologists. Theory and clinical experiences are provided in vascular and interventional angiography, computed tomography, magnetic resonance imaging, and ultrasound. Students receive theory in all areas and select at least one major and one or two minors for clinical experiences.

Length of the Program A new class begins Summer Session II each year and continues through the end of the spring semester the next year (10.5 months).

Structure of the Program Students have professional classes or clinical experiences from 8 a.m. to 4 p.m., Monday through Friday.

Design of the Professional Curriculum The lecture material and clinical experiences are integrated.

Opportunity for Students to Work Employment as a part-time radiographer may be available at one of the medical center hospitals.

Program Facilities The Medical Imaging Technology Program is offered in Indianapolis at the Indiana University Medical Center. The offices, classrooms, and laboratory facilities are located on the first floor of the Clinical Building. 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 at the Indiana University Medical Center in Indianapolis.

ADMISSION

General Information

Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Criteria Used for Selection of Class Previous academic record, evidence of registration by the American Registry of Radiologic Technologists, a personal interview, and availability of major clinical concentration.

Class Size 10 students each June.

Specific Requirements

In addition to the School of Allied Health Sciences admission policies found at the beginning of the bulletin, the following

admission policies apply to the Medical Imaging Technology Program.

Application Deadline December 1 of the year prior to anticipated entry.

Total Number of Prerequisite Credit Hours 90 semester hours.

Minimum Cumulative Grade Point Average 2.3 on a 4.0 scale at the time of interview.

Minimum Specific Grade Point Average Cumulative 2.3 on a 4.0 scale for all life and physical science course work. A 2.50 for all radiologic technology courses and a 3.0 for clinically related courses.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview All qualified applicants must participate in an interview. Interviews are conducted in February.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Experience While radiography experience beyond the initial radiography program is not required, it is highly recommended.

Awards The program faculty 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.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

General-Education Areas

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

Human Physiology (with lab) (G).....	4-5 cr.
Preprofessional Radiography Course Work.....	48 cr.

Technical Specialty

This area is complete for applicants who have earned 48 college credit hours in radiography.

Students who received their technical training in noncredit awarding programs and who have full credentials in radiography (ARRT) may be awarded credit for their credentials and experience and/or may petition to test out of technical specialty courses. The Special Credit Policy is available upon request. Each applicant will be evaluated individually.

Students must select additional courses in radiography or in areas that support, complement, or extend their radiography background if they lack 40 semester hours of earned college credit in radiography.

Suggested Electives (to bring total credits up to 90) The number of elective credit hours will differ for each student to complete a total of 90 credit hours of prerequisite course work. Additional electives may be required, before or during the professional program, to complete a minimum of 122 credit hours of academic work for graduation. There are 31 professional credits.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Senior

Summer Session II

Sectional Imaging Anatomy AHLT R404.....	2 cr.
Computer Science for Allied Health CSCI 205.....	2 cr.
Total.....	4 cr.

Fall

Medical Care I AHLT W374.....	3 cr.
Senior Project in Medical Imaging Technology AHLT R409.....	3 cr.
Medical Imaging Theory AHLT R451.....	3 cr.
Clinical Practicum: Vascular Imaging AHLT R481.....	1-8 cr.
Clinical Practicum: Computed Tomography AHLT R482.....	1-8 cr.
Clinical Practicum: Magnetic Resonance Imaging AHLT R483.....	1-8 cr.
Clinical Practicum: Ultrasound Imaging AHLT R484.....	1-8 cr.
Total.....	15 cr.

Spring

Medical Care II AHLT W471.....	3 cr.
Medical Imaging Applications AHLT R452.....	3 cr.

Clinical Practicum: Vascular Imaging AHLT R481.....	1-8 cr.
Clinical Practicum: Computed Tomography AHLT R482.....	1-8 cr.
Clinical Practicum: Magnetic Resonance Imaging AHLT R483.....	1-8 cr.
Clinical Practicum: Ultrasound Imaging AHLT R484.....	1-8 cr.
Seminar: Medical Imaging AHLT R407.....	1-3 cr.
Total.....	12 cr.

Graduation Requirements Satisfactory completion of 122 credit hours to include 90 credit hours of prerequisite and general-education courses and 31 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Professor Suetta Kehrein, Baccalaureate Degree Coordinator, Department of Radiologic Sciences. Telephone (317) 274-3801.

Nuclear Medicine Technology

An educational program in Nuclear Medicine Technology is located on the Indiana University-Purdue University at Indianapolis campus.

Description of the Profession 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 physicians in surgical procedures and 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.

Graduates of the Program Graduates receive a Bachelor of Science degree and are eligible to take the certification examination of the American Registry of Radiologic Technologist

and the Nuclear Medicine Technology Certification Board to become certified as a nuclear medicine technologist, R.T.(N), or C.N.M.T.

Credentials Required to Practice R.T.(N) (ARRT), Registered Nuclear Medicine Technologist or C.N.M.T.(NMTCB), Certified Nuclear Medicine Technologist.

BACHELOR OF SCIENCE IN NUCLEAR MEDICINE TECHNOLOGY AT INDIANA UNIVERSITY–PURDUE UNIVERSITY AT INDIANAPOLIS

Medical Director: Professor Wellman

Program Director: Associate Professor Hernandez

Educational Program Director: Assistant Professor Kosegi

Associate Professors: Mock

Assistant Professors: Appledorn

Instructors: Lewis

Lecturers: Karam, Krepshaw, Shiplett, Winther

EDUCATIONAL PROGRAM

Length of the Program A new class begins Summer Session II each year and continues for 14 months.

Structure of the Professional Program The curriculum is basically designed for those persons with no previous experience in nuclear medicine, although experienced technologists may apply for admission. Students have professional classes or clinical experience from 8 a.m. to 5-5:30 p.m. Monday through Friday. Students are also required to participate in clinical experience on several Saturday mornings.

Design of the Professional Curriculum This degree is designed to prepare qualified nuclear medicine technologists. The principal aim of the degree is to provide students with educational experiences that will permit them to develop the competencies required to function effectively as nuclear medicine technologists. The curriculum integrates theory and clinical experience.

Opportunity for Students to Work Some part-time employment may be available in the radiology departments at the Indiana University Medical Center.

Program Facilities The nuclear medicine technology option is offered in Indianapolis at the Indiana University Medical Center. The offices, classrooms, and library are located on the first floor of the Clinical Building. Students obtain clinical experience in the nuclear medicine areas of radiology departments

located in University, Riley, Wishard, and Veterans Administration hospitals. Laboratory facilities are also located in the hospitals. All of these clinical and laboratory facilities are located at the Indiana University Medical Center in Indianapolis.

Accreditation The bachelor's degree major in nuclear medicine technology is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association.

ADMISSION

General Information

Admission to the professional program is competitive; therefore, completion of the prerequisites does not guarantee admission to the program.

Class Size 10-15 students each Summer Session II (late June).

Specific Requirements

In addition to the School of Allied Health Sciences Admission policies and requirements found at the beginning of the bulletin, the following apply to the Nuclear Medicine Technology Program.

Application Deadline December 1 of the year prior to anticipated entry.

Total Number of Prerequisite Credit Hours 88 semester hours.

Minimum Cumulative Grade Point Average 2.5 on a 4.0 scale.

Minimum Specific Grade Point Average 2.5 on a 4.0 scale for all life and physical science course work.

Minimum Grade Requirement in a Stated Prerequisite Course C (2.0 on a 4.0 scale).

Interview Qualified applicants must participate in an interview. Interviews are conducted in February.

Technical Standards See School of Allied Health Sciences technical standards.

Indiana Residents Preference Policy See School of Allied Health Sciences policy.

Volunteer Experience Applicant must observe in a nuclear medicine facility before an interview will be scheduled.

Awards The faculty 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.

CURRICULUM

Prerequisites

Prior to entering the program, the student must complete the following minimum prerequisites. Students should consult with their academic advisers for appropriate courses and semester sequence in order to complete prerequisites. Prerequisites may be taken at any accredited college or university. The code (G) indicates a course that meets the school's general-education requirements.

Verbal Communication (G).....	2-3 cr.
Written Communication (G).....	2 courses
Humanities Elective (G).....	3-5 cr.
Introductory Psychology (G).....	3 cr.
Social and Behavioral Sciences Elective (G).....	6 cr.
Elementary Chemistry I (with lab) (G) ...	4-5 cr.
Elementary Chemistry II (with lab) (G) ...	4-5 cr.
Physics (one or two courses, depending on course content) (G).....	4-8 cr.
Human Anatomy (with lab) (G).....	4-5 cr.
Human Physiology (with lab) (G).....	4-5 cr.
College Algebra and Trigonometry or Calculus (G).....	5-6 cr.
(one or two courses depending on course content)	

Life and Physical Sciences Electives To complete the total 40 credit hours, elective areas include selected courses in allied health, anatomy, biology, chemistry, genetics, mathematics, microbiology, nursing, pathology, pharmacology, physiology, and physics. Computer science and statistics are highly recommended. Other areas may be approved.

Suggested Electives (30 cr.) While not inclusive or mandatory, the following is a list of suggested elective areas: selected allied health, medical terminology, introduction to computers, psychology, sociology, microbiology, genetics, statistics, anthropology, philosophy, education, supervision, ethics.

A Suggested Plan of Study

Freshman

Fall

English Composition.....	3 cr.
Beginning Psychology.....	3 cr.
Algebra and Trig.....	3 cr.
Elem. Chemistry I or Princ. of Chemistry I.....	5 cr.
Total.....	14 cr.

Spring

Speech Communications	
Interpersonal Comm.	3 cr.
Elem. Chemistry II or Princ. of Chem. II.....	5 cr.

Algebra and Trig or Brief Survey of Calc.	3 cr.
Humanities	3 cr.
Total.....	14 cr.

Sophomore

Fall

Written Comm.	3 cr.
Human Anatomy.....	5 cr.
Social/Behavioral Life Science Elec.	6 cr.
Life Science Elec.	3 cr.
Total.....	14 cr.

Spring

Social/Behavioral Science Elec.	3 cr.
Elementary Chemistry II or Life Science Elec.	3 cr.
General Physics.....	4 cr.
Total.....	13 cr.

Junior

Fall

Human Physiology.....	5 cr.
Electives.....	11 cr.
Total.....	16 cr.

Spring

Life Science Elec.	6 cr.
Medical Terminology	2 cr.
Electives.....	9 cr.
Total.....	17 cr.

Professional Program

Courses in the professional program are sequential and, therefore, must be taken in the order specified by the program faculty.

Senior

The 36 credits listed below are obtained within a 14-month period and fulfill eligibility requirements for the registry examination in nuclear medicine technology.

Summer Session II

Patient Care in Radiologic Science AHLT R104.....	2 cr.
Medical Terminology AHLT R185.....	1 cr.
Computer Science for Allied Health CSCI 205.....	2 cr.
Total.....	5 cr.

Fall

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.
Clinical Nuclear Medicine Practicum 1 AHLT R445.....	5 cr.
Total.....	13 cr.

*Spring***Physics and Instrumentation
of Nuclear Medicine II**

AHLT R417	2 cr.
Radionuclide Measurements AHLT R422	2 cr.
Radiopharmaceuticals AHLT R427	2 cr.
Radiation Protection in Nuclear Medicine AHLT R437	1 cr.
Clinical Nuclear Medicine Practicum 2 AHLT R446	5 cr.
Total	12 cr.

*Summer Session I***Radiobiology in Nuclear**

Medicine AHLT R440	1 cr.
Clinical Nuclear Medicine Practicum 3 AHLT R447	2 cr.
Total	3 cr.

*Summer Session II***Clinical Nuclear Medicine**

Practicum 3 AHLT R447	2 cr.
Topics: Nuclear Medicine Management AHLT R408	1 cr.
Total	3 cr.

Graduation Requirements Satisfactory completion of 124 credit hours to include 88 credit hours of prerequisite and general-education courses and 36 credit hours of professional courses. All course work must be completed in compliance with the program's and school's academic and professional policies.

For further information, contact Professor Suetta Kehrein, Baccalaureate Degree Coordinator, Department of Radiologic Sciences. Telephone (317) 274-3801.

BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES AT INDIANA UNIVERSITY NORTHWEST

A Bachelor of Science in Radiologic Sciences is being developed on the IU Northwest campus for graduates of the radiography program. For further information, contact Professor Adler, Director, Radiography Program (219) 980-6542.

Course Descriptions

Radiologic Sciences

AHLT R100 Orientation to Radiologic Technology (2 cr.) C or P: R101, R102, R181. Introduction to the field of radiology and its history. Students learn proper ethical standards, become acquainted with the duties and responsibilities in personal care for the patient, and investigate radiation protection for the patient and personnel. Degree credit will not be given for both R100 and R104.

AHLT R101 Radiographic Procedures I

(3-4 cr.) C or P: R100 or R104, R102, R181. Concepts in radiography with emphasis on the radiographic procedures used to demonstrate the skeletal system.

AHLT R102 Principles of Radiography 1

(3 cr.) C or P: College Algebra, R101, R181. Basic concepts of radiation, its production, and its interactions with matter. Includes the production of the radiographic image and film processing.

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 procedures used on typical radiographic examinations.

AHLT R104 Patient Care in Radiologic

Science (2 cr.) Introduction to health care practices in the radiology department. Includes an overview of the field of radiology, ethics, patient care, and professional standards. Degree credit will not be given for both R100 and R104.

AHLT R181 Clinical Experience in

Radiography (1-6 cr.) C or P: R100 or R104. 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 of clinical objectives is reached.

AHLT R182 Clinical Experience in

Radiography (1-6 cr.) P: R101 and R181. 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 of clinical objectives is reached.

AHLT R185 Medical Terminology (1 cr.)

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

AHLT R200 Pathology (2-3 cr.)

P: Anatomy/Physiology. A survey of the changes that occur in the diseased state to include general concepts of disease, causes of disease, clinical symptoms and treatment, and diseases that affect specific body systems.

AHLT R201 Radiographic Procedures II (3 cr.)

C or P: R101, R202, R182. Concepts in radiography with emphasis on radiographic procedures used to demonstrate the skull and those requiring the use of contrast media.

AHLT R202 Principles of Radiography 2

(3 cr.) C or P: R102, R201, R181. Continuation of R102 with emphasis on the properties that affect the quality of the radiographic image.

AHLT R205 Radiographic Procedures III (3 cr.) C or P: R201, R222. Concepts in radiography with emphasis on special radiographic procedures and related imaging modalities.

AHLT R222 Principles of Radiography 3 (3 cr.) P: R202. Continuation of R202 with emphasis on the application of radiography principles of imaging equipment.

AHLT R250 Physics Applied to Radiology (2-4 cr.) P: College Algebra, Fundamentals of radiation physics, X-ray generation, and equipment quality control.

AHLT R253 Radiation Experiments and Quality Control (1 cr.) P: R250. A laboratory course emphasizing the major characteristics of diagnostic X-ray systems and methods of assuring adequate function of radiographic equipment. Major topics include anode heel effect, inverse square law, half-value layer, film sensitometry, radiation intensity, and quality control testing.

AHLT R260 Radiation Biology and Protection in Diagnostic Radiology (1-3 cr.) P: R250. Study of the biological effects 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 R281 Clinical Experience in Radiography (1-6 cr.) P: R201 and R182. 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 of clinical objectives is reached.

AHLT R282 Clinical Experience in Radiography (1-6 cr.) P: R201 and R182. 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 of clinical objectives is reached.

AHLT R283 Clinical Experience in Radiography (1-6 cr.) P: R201 and R182. 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 of clinical objectives is reached.

AHLT R290 Comprehensive Experience (1-8 cr.) P: R281, R282, and 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. Successful completion involves mastery of all clinical aspects of the program.

AHLT R401 Advanced Clinical Practicum 1 (1-8 cr.) 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 2 (1-8 cr.) Continuation of AHLT R401.

AHLT R403 Advanced Clinical Practicum 3 (1-8 cr.) Continuation of AHLT R402.

AHLT R404 Sectional Imaging Anatomy (2 cr.) An in-depth study of sectional anatomy pertinent to ultrasound, computed tomography, and magnetic resonance imaging. Standard transverse, parasagittal, and coronal planes are included, utilizing images from all three imaging modalities. A discussion of technique, artifact, and pathology-related alterations of cross-sectional anatomic appearances is included.

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 (1-5 cr.) Individual and group study focusing upon advances in medical imaging.

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 Senior Project in Medical Imaging Technology (3 cr.) Independent readings and research on a selected medical imaging topic. A paper in publishable form must be written as part of the project.

AHLT R412 Physics and Instrumentation of Nuclear Medicine I (2 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 (2 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 1 (4-8 cr.) Practical clinical application of nuclear medicine theory.

AHLT R446 Clinical Nuclear Medicine Practicum 2 (4-8 cr.) Continuation of AHLT R445.

AHLT R447 Clinical Nuclear Medicine Practicum 3 (2-8 cr.) Continuation of AHLT R446.

AHLT R451 Medical Imaging Theory (3 cr.) P: MATH 147, PHYS P100, CSCI 205, AHLT R404. Lectures on the physical principles of advanced imaging modalities including computed tomography, magnetic resonance, ultrasound, and vascular imaging. Image evaluation of normal studies is stressed. Student presentations and journal reports are required.

AHLT R452 Medical Imaging Applications (3 cr.) P: AHLT R451. Lectures on and evaluations of the computed tomographic, magnetic resonance, ultrasound, and vascular images as applied to pathologic conditions of specific body areas. Student presentations and journal reports are required.

AHLT R481 Clinical Practicum: Vascular Imaging (5-8 cr.) P: CSCI 205, AHLT R404, RT(R). Clinical experience in the performance of vascular and neurological imaging studies.

AHLT R482 Clinical Practicum: Computed Tomography (5-8 cr.) P: CSCI 205, AHLT R404, RT(R). Clinical experience in the performance of computed tomographic imaging studies.

AHLT R483 Clinical Practicum: Magnetic Resonance Imaging (5-8 cr.) P: CSCI 205, AHLT R404. Clinical experience in the performance of magnetic resonance imaging studies.

AHLT R484 Clinical Practicum: Ultrasound Imaging (5-8 cr.) P: CSCI 205, AHLT R404. Clinical experience in the performance of ultrasound imaging studies.

AHLT R485 Clinical Practicum (5-8 cr.) P: CSCI 205, AHLT R404. Clinical experience in medical imaging studies. Specific area of experience will be determined by availability of instruction.

Faculty, 1991-93

Credential Abbreviations

A.B.R.—American Board of Radiology
 A.R.T.—Accredited Record Technician
 C(ASCP)—Technologist in Chemistry
 C.L.S.—Clinical Laboratory Scientist
 C.L.T.—Clinical Laboratory Technician
 C.N.M.T. (NMTCB)—Certified Nuclear Medicine Technologist
 C.O.T.A.—Certified Occupational Therapy Assistant
 C.T. (ASCP)—Cytotechnologist
 I(ASCP)—Technologist in Immunology
 M(ASCP)—Technologist in Microbiology
 M.L.T.(ASCP)—Medical Laboratory Technician
 M.T.(ASCP)—Medical Technologist
 O.T.R.—Registered Occupational Therapist
 P.T.—Physical Therapist
 R.R.A.—Registered Record Administrator
 R.R.T.—Registered Respiratory Therapist
 R.T.(N)(ARRT)—Registered Nuclear Medicine Technologist
 R.T.(R)(ARRT)—Registered Radiographer
 R.T.(T)(ARRT)—Registered Radiation Therapy Technologist
 S.B.B.(ASCP)—Specialist in Blood Banking
 SC(ASCP)—Specialist in Chemistry
 S.C.T.(ASCP)—Specialist in Cytotechnology
 SH(ASCP)—Specialist in Hematology
 S.I.(ASCP)—Specialist in Immunology
 SM(ASCP)—Specialist in Microbiology

Faculty Emeriti

Ekstam, Frances C., M.S. (*Indiana University*, 1960), P.T. (1944), Professor Emerita of Physical Therapy
 Ladue, Ruth A., M.A. (*Stanford University*, 1967), P.T. (1945), Assistant Professor Emerita of Physical Therapy
 Lehman, Rachel M., B.S. (*Indiana State University*, 1929), M.T. (ASCP) (1936), Assistant Professor Emerita of Medical Technology
 Magee, Marion, R., A.M. (*Smith College*, 1961), P.T. (1956), Associate Professor Emerita of Physical Therapy
 Simek, Erna, M.H.A. (*Washington University*, 1954), O.T.R. (1944), Associate Professor Emerita of Occupational Therapy
 Young, Mildred R., M.S. (*Butler University*, 1966), M.T. (ASCP) (1942), SH (ASCP) (1980), Assistant Professor Emerita of Medical Technology

Faculty

Adler, Arlene M., M.Ed. (*University of Illinois*, 1981), R.T.(R) (ARRT) (1973), Program Director and Associate Professor of Radiologic Technology (IUN)

Appledorn, C. Robert, M.S. (*University of New Mexico*, 1977), A.B.R. (1980), Assistant Professor of Radiology (IUPUI)

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

Avila, Elaine M., M.S. (*Indiana University*, 1983), P.T. (1977), Assistant Professor of Physical Therapy (IUPUI)

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

Bartlett, Marilyn, M.S. (*Indiana University*, 1974), M.T. (ASCP) (1951), SM(ASCP), (1973) Professor of Medical Technology (IUPUI)

Brehm, Karen, A.S. (*Indiana University*, 1983), R.T. (R) (ARRT) (1983), Adjunct Instructor of Radiologic Sciences (IPFW)

Brito, Cynthia M., B.S. (*Indiana University*, 1972), M.T.(ASCP)(1973), Instructor in Medical Laboratory Technology (IUN)

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

Carl, T. Kay, B.S. (*Indiana University*, 1967), O.T.R. (1967), Assistant Dean, School of Allied Health Sciences and Assistant Professor of Occupational Therapy (IUPUI)

Cox, Linda, B.S. (*Indiana University*, 1987), R.T. (R) (ARRT) (1979), Lecturer in Radiologic Science (IUPUI)

Crabtree, William N., M.S. (*Indiana University*, 1983), C.T. (ASCP) (1977), S.C.T. (ASCP) (1987), Program Director and Associate Professor of Cytotechnology (IUPUI)

Cullen, Deborah L., Ed.D. (*University of Southern California*, 1989), R.R.T. (1977) Program Director for Respiratory Therapy, Associate Professor of Respiratory Therapy and Anesthesia (IUPUI)

Davis, Susan, B.S. (*Indiana University*, 1973), R.T. (R) (ARRT) (1972), Lecturer in Radiologic Sciences (IUPUI)

Doerffler, Bonnie, A.S. (*Indiana University*, 1978), R.T. (R) (ARRT) (1978), Adjunct Instructor of Radiologic Sciences (IPFW)

Dunn, Donna K., M.S. (*Indiana University*, 1979) R.T.(T) (ARRT) (1969), Program Director and Assistant Professor in Radiation Therapy (IUPUI)

Eagleson, Martha, B.S. (*Indiana University*, 1978), R.T. (R) (ARRT) (1972), Clinical Coordinator and Associate Faculty of Radiologic Sciences (IPFW)

Ehringer, Suzanne, M.S.B.A. (*Saint Francis College*, 1988), R.T. (R) (ARRT) (1976), Program Director and Adjunct Instructor of Radiologic Sciences (IPFW)

- Farber, Shereen D., Ph.D. (Indiana University, 1985), O.T.R., (1967), Associate Professor of Occupational Therapy, part-time (IUPUI)
- Feeley, Mary, Ed.D. (Indiana University, 1986), M.T. (ASCP) (1946), Professor of Medical Technology (IUPUI)
- Feinberg, Judy, Ph.D. (Purdue University, 1990), O.T.R. (1970), Assistant Professor of Occupational Therapy (IUPUI)
- Frost, Stephanie V., M.S. (University of Wisconsin, 1969), Instructor in Radiation Therapy (IUPUI)
- Gartner, Donald J., M.S. (Indiana University, 1972), M.T. (ASCP) (1967), SH(ASCP) (1990), Associate Professor of Medical Technology (IUPUI)
- Griswold, Patricia A., M.S. (Butler University, 1971), O.T.R. (1963), Assistant Professor of Occupational Therapy, part-time (IUPUI)
- Hamant, Celestine, M.S. (Butler University, 1971), O.T.R. (1964), Director and Associate Professor of Occupational Therapy (IUPUI)
- Hernandez, Emily, M.S. (Indiana University, 1978), R.T.(R)(ARRT) (1970), Director and Associate Professor of Radiologic Sciences (IUPUI)
- Hersch, Gayle, M.S. (Indiana University, 1979), O.T.R. (1964), Clinical Assistant Professor of Occupational Therapy (IUPUI)
- Hill, Nat U., IV, D.V.M. (Purdue University, 1972), MT(ASCP) (1985), Assistant Professor of Medical Technology, part-time (IUPUI)
- Holden, Robert W., M.D. (Indiana University, 1963) Chairperson and Professor of Radiology, Medical Director, Radiologic Sciences (IUPUI)
- Hocker, Narcissa, M.S. (Indiana University, 1964), M.T. (ASCP) (1945), S.B.B. (ASCP) (1955), Associate Professor of Medical Technology (IUPUI)
- Kasper, Linda M., M.S. (Indiana University, 1977), M.T. (ASCP) (1963), S.C. (ASCP) (1975), Assistant Director and Associate Professor of Medical Technology (IUPUI)
- Kehrein, Suetta, M.S. (Indiana University, 1975), R.T.(R) (ARRT) (1964), Coordinator of Baccalaureate Degrees and Assistant Professor of Radiologic Sciences (IUPUI)
- Kiel, Judith, M.S., (Indiana University, 1979), O.T.R. (1969), Associate Professor of Occupational Therapy, part-time (IUPUI)
- Kosegi, Judith E., M.S. (Indiana University, 1978), C.N.M.T.(NMTCB)(1978), R.T.(N)(ARRT) (1973), Assistant Professor of Radiologic Sciences (IUPUI)
- Koss, Joseph A., M.S. (Indiana University, 1977), R.R.T., Associate Professor of Respiratory Therapy (IUPUI)
- Lamport, Nancy, M.S., (Butler University, 1984) O.T.R. (1953), Assistant Professor of Occupational Therapy (IUPUI)
- Ledbetter, Marlene, M.Ed. (University of Illinois, 1981), R.T.(R) (ARRT), (1973), Clinical Coordinator and Assistant Professor of Radiologic Technology (IUN)
- Lewis, Elizabeth Ann, A.S. (Indiana University, 1980), R.T. (R) (ARRT) (1980), Adjunct Instructor of Radiologic Sciences (IPFW)
- Long, Bruce, M.S. (Eastern Illinois University, 1983), R.T. (R) (ARRT) (1980), Associate Professor of Radiologic Sciences (IUPUI)
- LoSasso, Alvin M., M.D. (The Ohio State University, 1963), Medical Director of the Respiratory Therapy Program and Professor of Anesthesiology and Respiratory Therapy (IUPUI)
- McKenzie, Mary L., M.S. (Indiana University, 1973), R.R.A. (1954), Director and Associate Professor of Medical Record Administration (IUPUI)
- Marler, Linda M., M.S. (Indiana University, 1978), M.T. (ASCP) (1973), SM(ASCP) (1979), Associate Professor of Medical Technology (IUPUI)
- Miller, M. Devon, M.S. (Indiana University, 1966), Assistant Professor of Medical Record Administration (IUPUI)
- Nathan, Carol, Ed.D. (Indiana University, 1988), O.T.R. (1958), Associate Dean of the Faculties and Associate Professor of Occupational Therapy (IUPUI)
- Nordschow, Carleton, M.D. (University of Iowa, 1953), Ph.D., (University of Iowa, 1964), Director of Medical Technology, Interim Chairperson and Professor of Pathology (IUPUI)
- Perry, Douglas, Ph.D. (City University of New York), (1991), R.R.T. (1977) Associate Professor of Respiratory Therapy and Anesthesia (IUPUI)
- Poff, Daniel, M.S. (Ohio State University, 1987), O.T.R. (1980), Assistant Professor of Occupational Therapy (IUPUI)
- Porter, Angela E., B.S. (Indiana University, 1981) CT(ASCP)(1981), Lecturer in Cytotechnology (IUPUI)
- Porter, Rebecca E., Ph.D. (Indiana University, 1991), P.T. (1972), Director and Associate Professor of Physical Therapy (IUPUI)
- Rafert, John, M.S. (Indiana University, 1980), R.T.(R)(ARRT) (1985), Assistant Professor of Radiologic Science (IUPUI)
- Rodak, Bernadette, M.S. (University of Kentucky, 1980), MT(ASCP) (1968), SH(ASCP) (1976), Assistant Professor of Medical Technology
- Schneider, Judith J., M.S. (Indiana University, 1987), R.T.(T) (ARRT) (1977), Assistant Professor of Radiation Therapy (IUPUI)
- Schreiner, Richard L., M.D. (Washington University, 1971), Professor of Pediatrics and Respiratory Therapy (IUPUI)

Shidnia, Homayoon, M.D. (*University of Isfahan, Iran, 1956*), Associate Professor of Radiation Oncology, Medical Director of Radiation Therapy (IUPUI)

Skurka, Margaret A., M.S. (*Purdue University, 1979*), R.R.A. (1974), Program Director and Associate Professor of Medical Record Technology (IUN)

Snyder, John R., Ph.D. (*University of Nebraska, 1982*), M.T.(ASCP)(1971), S.H.(ASCP)(1978), Associate Dean of Medicine; Dean, School of Allied Health Sciences; and Professor of Allied Health (IUPUI)

Stout, Janet, M.S. (*University of Indianapolis, 1987*), O.T.R. (1979), Assistant Professor of Occupational Therapy (IUPUI)

Swinehart, Susan, M.S. (*Indiana University, 1986*), O.T.R. (1974), Assistant Professor of Occupational Therapy, part-time (IUPUI)

Szymczak Ruth, M.S., (*Indiana University, 1972*) R.R.T. (1987), Acting Program Director and Assistant Professor of Respiratory Therapy (IUN)

Thorn, Barbara, B.S. (*Indiana University, 1983*), R.T. (R) (ARRT) (IPFW)

Topolski, Vicki, B.S. (*George Williams College, 1976*) R.T. (R) (ARRT) (1987), Clinical Coordinator and Lecturer of Radiologic Technology (IUSB)

Trimble, Mark H., M.S. (*University of Evansville, 1981*), Assistant Professor of Physical Therapy

Walters, Steven, M.S. (*University of Notre Dame, 1989*), R.T. (R) (ARRT) (1981), Program Director and Assistant Professor of Radiologic Technology (IUSB)

Wellman, Henry N., M.D. (*St. Louis University, 1961*), Director of Nuclear Medicine and Professor of Radiology (IUPUI)

Wellman, Sara J., A.S. (*Indiana University, 1974*), A.R.T. (1974), Clinical Coordinator for Medical Record Technology Program (IUN)

Adjunct Faculty

Atkins, Judith A., B.S. (*Indiana University, 1968*), O.T.R. (1968), Adjunct Instructor in Occupational Therapy (IUPUI)

Auksel, Pamela J., B.S. (*Purdue University, 1976*), Program Director and Adjunct Lecturer in Medical Technology, St. Joseph's Hospital and Health Center, Kokomo

Banham, Ed, A.S. (*Indiana University Northwest, 1976*), R.R.T. (1978), Clinical Instructor in Respiratory Therapy (IUN)

Chin, Samuel, A.S. (*Columbus Technical Institute, 1978*), R.R.T. (1983), Clinical Instructor in Respiratory Therapy (IUN)

Coffman-Kadish, Nancy Kay, B.A. (*College of St. Scholastica, 1982*) R.R.A., Adjunct Instructor in Medical Record Technology (IUN)

Collins, Carol, R.T. (R) (ARRT) (1973) Clinical Instructor in Radiologic Technology (IUN)

Cox, Mary A., B.S. (*Taylor University, 1981*) R.R.T. (1985), Adjunct Lecturer in Respiratory Therapy, part-time (IUPUI)

Dave, Vijay, M.D. (*University of Bombay, 1966*), Medical Director, Respiratory Therapy Program; Director, Respiratory Care Department, St. Margaret Hospital, Hammond, and Community Hospital of Munster, Munster (IUN)

Demitroulas, Sue, B.S., MT(ASCP), Director, Medical Technology Program, St. Mary Medical Center (IUN)

Erickson, Mary Jo, R.N., M.S. (*Indiana University 1975*), Adjunct Lecturer in Allied Health (IUN)

Erickson, Robert, A.S. (*Indiana University Northwest, 1973*), R.R.T. (1975), Clinical Instructor in Respiratory Therapy (IUN)

Ewing, Marvine, B.S. (*Marion College 1975*) R.T.(T) (ARRT) (1977), Lecturer in Radiation Therapy (IUPUI)

Gustaitis, John W., M.D., (*Northwestern University Medical School, Chicago, 1967*) Clinical Assistant Professor of Radiologic Technology (IUN)

Griep, John A., J.D. (*Indiana University, 1982*), M.D. (*University of Michigan, 1962*), Medical Adviser, Medical Laboratory Technology (IUN)

Hingtgen, Eleanor, B.S. (*Washington University, 1964*) O.T. R. (1965), Adjunct Lecturer in Occupational Therapy (IUPUI)

Jones, Robin, A.S. (*Indiana University Northwest, 1979*), R.T.(R)(ARRT) (1979), Clinical Instructor in Radiologic Technology (IUN)

Karam, Philip M., B.S. (*Xavier University, 1978*), C.N.M.T.(NMTCB)(1979), Adjunct Lecturer in Radiologic Sciences (IUPUI)

Keesling, Nancy, A.S. (*Indiana University, 1982*), C.O.T.A. (1982), Adjunct Lecturer in Occupational Therapy (IUPUI)

Laudani, JoAnn, A.S. (*Indiana University Northwest, 1981*), R.R.T. (1983), Clinical Instructor in Respiratory Therapy (IUN)

Levin, Rhonda, M.S. (*University of Indianapolis, 1989*), O.T.R. (1980), Adjunct Instructor in Occupational Therapy (IUPUI)

Lewis, Sidney, B.A. (*Indiana University, 1972*), R.T.(N)(ARRT)(1974), C.N.M.T.(NMTCB) (1978), Instructor in Radiologic Sciences (IUPUI)

Lilly, Jon, B.A. (*Wabash College, 1975*), R.T.(R)(ARRT)(1981), Clinical Instructor in Radiologic Technology (IUN)

Lute, James, M.S. (*Purdue University, 1976*), P.D. (1977), Adjunct Lecturer in Allied Health (IUN)

- Mackie, Kathleen, B.S. (*Valparaiso University, 1982*), M.T. (ASCP) (1983), *Instructor in Medical Laboratory Technology (IUN)*
- Mancilla, Desla R., A.S. (*Indiana University Northwest, 1983*), A.R.T. (1983), *Adjunct Instructor in Medical Record Technology (IUN)*
- Meyers, Susan, Ed.D. (*Indiana University, 1990*), *Adjunct Associate Professor (IUPUI)*
- Mosqueda, Joseph, A.S. (*Indiana University Northwest, 1976*), R.T.(R)(ARRT)(1975), *Clinical Instructor in Radiologic Technology (IUN)*
- O'Donnell, Traci, A.S. (*Indiana University Northwest, 1987*), R.T.(R)(ARRT)(1987), *Clinical Instructor in Radiologic Technology (IUN)*
- Oldham, Kathleen B., M.D. (*Indiana University, 1964*) *University Physician, Student Employee Health Service, and Clinical Assistant Professor of Allied Health Sciences, part-time (IUPUI)*
- Shidlett, Cheryl A., B.S. (*Indiana University, 1980*), C.N.M.T.(NMTCB)(1980), *Adjunct Lecturer in Radiologic Sciences (IUPUI)*
- Smith, Darryl Rex, M.D. (*The Ohio State University, 1976*) *Adjunct Assistant Professor of Medical Technology, Parkview Hospital, Fort Wayne*
- Squires, Jeffrey P., M.D. (*Indiana University, 1978*), *Adjunct Assistant Professor of Medical Technology, Medical Director of School of Medical Technology at St. Joseph's Hospital and Health Center, Kokomo*
- Stark, Maureen, B.S. (*Indiana University, 1984*), O.T.R. (1984), *Adjunct Lecturer in Occupational Therapy (IUPUI)*
- Thegze, Tracy, A.S. (*Indiana University Northwest, 1980*), R.T.(R)(ARRT) (1980), *Clinical Instructor in Radiologic Technology (IUN)*
- Torrance, Martha S., M.S. (*Indiana University, 1985*), O.T.R. (1979), *Adjunct Assistant Professor of Occupational Therapy (IUPUI)*
- Williams, Fran M., M.S. (*Purdue University 1978*), *Program Director and Adjunct Instructor in Medical Technology Parkview Hospital, Fort Wayne*
- Wilson, Sue, A.S. (*Indiana University Northwest, 1975*), R.T.(R)(ARRT)(1976), *Clinical Instructor in Radiologic Technology (IUN)*
- Wilson, Patricia A. B.S., (*Indiana University, 1974*), R.R.A.(1974), *Adjunct Instructor in Medical Record Technology (IUN)*
- Winther, James F., B.S. (*Butler University, 1973*), R.T.(N)(ARRT)(1972), *Adjunct Lecturer in Radiologic Sciences (IUPUI)*

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. With 842 degree programs, the university attracts students from all 50 states and around the world. The full-time faculty numbers more than 3,500 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 institutions of higher education in the Midwest. It serves more than 92,000 students on eight campuses. The residential campus at Bloomington and the urban center at Indianapolis form the core of the university. 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.

General Policies

Nondiscrimination Policy Indiana University is committed to equal opportunity for all persons and provides its services without regard to gender, age, race, religion, ethnic origin, sexual orientation, veteran status, or disability. The university director of affirmative action is responsible for carrying out the affirmative action program for units in central administration. In addition, there is an affirmative action officer on each campus who develops and administers the program there.

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

A statement of students' rights and responsibilities is published in a handbook, *Code of Student Ethics*, which contains a description of 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.

Undergraduate Admissions Policy

Indiana University has adopted the following admissions policy to insure that undergraduate students are properly prepared for college work. These standards seek to ensure either adequate academic preparation in high school or evidence of unusual motivation on the part of each student admitted to the university. Effective first semester 1991-92, applicants for admission to Indiana University will be expected to meet the following criteria.

Freshman Students¹

1. Graduation from a commissioned Indiana high school or comparable out-of-state institution, successfully completing a minimum of 28 semesters of college-preparatory courses including the following:
 - (a) Eight semesters of English (One semester each of speech and journalism may be included.).
 - (b) Four semesters of social science (economics, government, history, psychology, or sociology).
 - (c) Four semesters of algebra (two semesters of which must be advanced algebra) and two semesters of geometry.
 - (d) Two semesters of laboratory science (biology, chemistry, or physics).
 - (e) Eight semesters in some combination of foreign language; additional mathematics, laboratory science, or social science; computer science; and other courses of a college-preparatory nature.
 - (f) Four semesters of foreign language are strongly recommended.
 - (g) Courses to develop writing composition skills are strongly recommended.
2. A rank in the upper half of the high school graduating class for Indiana

¹ Some academic programs require specific qualifications in addition to those enumerated in this policy.

residents or a rank in the upper third of the high school graduating class for out-of-state residents.

3. A score above the median established by Indiana students on a nationally standardized admissions test. Students who have been out of high school for three or more years do not have to submit test scores unless required for admission to specific programs.
4. Each campus may accept students who are deficient in (1), (2), or (3) of the above specifications upon receipt of such evidence as the combination of strength of college-preparatory program, rank in class, grades and grade trends in college-preparatory courses, and standardized test scores. For persons who do not meet the above criteria and who have been out of high school three or more years, admission can be based on other factors such as a General Educational Development (GED) diploma, maturity, work experience, military service, and other factors as determined by the campus.
5. Each campus, at its discretion, may admit a student on a probationary basis and/or through faculty sponsorship.

Transfer Students¹

1. Submission of official transcripts from all previous institutions attended.
2. The transcripts must reflect a cumulative grade point average of at least a 2.0 (on a 4.0 scale) for Indiana residents and at least a 2.5 (on a 4.0 scale) for out-of-state residents.
3. If the student has fewer than 26 transferable credit hours, the high school record should reflect compliance with freshman admission requirements as specified above.
4. The credentials of students seeking transfer to Indiana University will be evaluated on an individual basis.

When students do not qualify upon first application, they will be counseled about ways of removing deficiencies so that they may qualify for admission at a later date. If any provision of this policy is held invalid, the invalidity does not affect other provisions of this policy which can be given effect without the invalid provision, and to this end the provisions of this policy are severable.

Transfer to Other Indiana University Campuses

The policy stated below concerning transfer credit pertains to undergraduate students only.

Indiana University credits transferred from one campus of Indiana University to another will be evaluated and accepted in terms at least as favorable as credits transferred from other accredited institutions in the United States. No review of the credits will be undertaken except in good faith terms of the same criteria used in evaluating external credits. In fact, students transferring within the Indiana University system are treated much more favorably because of the similarity of course work on the eight campuses.

Students who want 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, students transferring 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 preenrollment procedure at the other campus, you should plan to take advantage of it. Contact the registrar of the other campus to determine whether you can fulfill any of these responsibilities by phone. Your registrar has a direct telephone line to all other registrars.
4. When you arrive on the new campus, contact your assigned academic adviser or department chairperson as soon as possible. Discuss your academic progress to date and the additional course work required for your program.

¹ Some academic programs require specific qualifications in addition to those enumerated in this policy.

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

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

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

1. "Residence" as the term, or any of its variations (e.g., "resided"), as used in the context of these rules, means the place where an individual has his or her permanent home, at which he or she remains when not called elsewhere for labor, studies, or other special or temporary purposes, and to which he or she returns in seasons of repose. It is the place a person has voluntarily fixed as a permanent habitation for himself or herself with an intent to remain in such place for an indefinite period. A person at any one time has but one residence, and a residence cannot be lost until another is gained.
 - (a) A person entering the state from another state or country does not at that time acquire residence for the purpose of these rules, but except as provided in rule 2(c), such person must be a resident for 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 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 12 consecutive months immediately preceding the first scheduled day of

classes of the semester or other session in which the individual registers in the university, subject to the exception in (c) below.

- (a) The residence of an unemancipated person under 21 years of age follows that of the parents or of a legal guardian who has actual custody of such person or administers the property of such person. In the case of divorce or separation, if either parent meets the residence requirements, such person will be considered a resident.
 - (b) If such person comes from another state or country for the predominant purpose of attending the university, he or she shall not be admitted to resident student status upon the basis of the residence of a guardian in fact, except upon appeal to the Standing Committee on Residence in each case.
 - (c) Such person may be classified as a resident student without meeting the 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 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 12 months from the residence qualifying date, i.e., the date upon which the student commenced the 12-month period for residence. The following factors will be considered relevant in evaluating a requested change in a student's nonresident status and in evaluating whether his or her physical presence in Indiana is for the predominant purpose of attending a college, university, or other institution of higher education. The existence of one or more of these factors will not require a finding of resident student status, nor shall the nonexistence of one or more require a finding of nonresident student status. All factors will be considered in combination, and ordinarily resident student status will not result from the doing of acts which are required or routinely done by sojourners in the state or which are merely auxiliary to the fulfillment of educational purposes.

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

status shall be subject to the full range of penalties, including expulsion, provided for by the university, as well as to such other punishment which may be provided for by law.

11. A student who does not pay additional monies which may be due because of his or her classification as a nonresident student within 30 days after demand, shall thereupon be indefinitely suspended.
12. A student or prospective student who fails to request resident student status within a particular semester or session and to pursue a timely appeal (see rule 8) to the Standing Committee on Residence shall be deemed to have waived any alleged overpayment of fees for that semester or session.
13. If any provision of these rules or the application thereof to any person or circumstance is held invalid, the invalidity does not affect other provisions or applications of these rules which can be given effect without the invalid provision or application, and to this end the provisions of these rules are severable.

Fees

Enrollment and administrative fees listed here were approved at the June 1991 meeting of the Trustees of Indiana University. Fees are subject to change by action of the trustees. For up-to-date information about fees in effect at registration time, see the campus *Schedule of Classes*.

Certain courses and programs requiring studios, laboratories, microscopes, computers, or other special equipment may involve special fees in addition to the enrollment fee. Applied music, student teaching, and some physical education courses also carry additional fees. See the campus *Schedule of Classes* for a list of such courses and programs.

Fees for Indiana University campuses other than Bloomington and Indianapolis are published in the bulletin of the specific campus.

ENROLLMENT FEES	Indiana Resident	Nonresident
Bloomington Campus		
Undergraduate ¹	\$1,195.00 flat fee/ 12 to 17 credit hours \$74.55/credit hour under 12	\$3,839.00 flat fee/ 12 to 17 credit hours \$240.00/credit hour under 12
Graduate and Professional ¹		
Business	\$143.00/credit hour	\$350.00/credit hour
Law	\$115.50/credit hour	\$317.75/credit hour
Optometry	\$122.30/credit hour	\$339.50/credit hour
Other	\$99.85/credit hour	\$288.00/credit hour
Independent Study (Correspondence)	\$66.00/credit hour	\$66.00/credit hour
Thesis enrollment (G901) ²	\$100.00	\$100.00
Auditing (no credit)	\$25.00/credit hour	\$25.00/credit hour
Indianapolis Campus		
Undergraduate ¹	\$74.55/credit hour	\$224.65/credit hour
Graduate and Professional ¹		
Business	\$143.00/credit hour	\$350.00/credit hour
Dentistry	\$6,210.00/year	\$12,880.00/year
Law	\$115.50/credit hour	\$317.75/credit hour
Medicine	\$6,750.00/year	\$15,300.00/year
Other	\$99.85/credit hour	\$288.00/credit hour
Thesis enrollment (G901) ²	\$100.00	\$100.00
Auditing (no credit)	applicable credit hour rate	

¹ Includes credit courses in the School of Continuing Studies.

² To keep their candidacies active, doctoral students with 90 credit hours or more and Master of Fine Arts students with 60 credit hours or more may enroll in G901 for a flat fee of \$100. Also, they must have completed all graduate degree requirements except for the dissertation or final project/performance. Enrollment in G901 is limited to six times. Students who do not meet these criteria pay the applicable credit hour rate for thesis enrollment.

ADMINISTRATIVE FEES³	Bloomington Campus	Indianapolis Campus
Application for admission		
United States	\$25.00	\$25.00
Foreign	\$35.00	\$50.00
Deferred billing charge ⁴	\$16.00	\$16.00
Enrollment deposit for entering freshmen	\$100.00	
Freshman Orientation	\$35.00	
Health service fee ⁵	\$54.50/semester prorated fee/summer sessions	optional
Late payment of fees	\$35.00/semester	\$10.00/month
Late program change ⁶	\$13.00/course added or dropped	\$13.65/course added or dropped
Late registration ⁷	\$35.00 to \$65.00/semester	\$20.00 to \$80.00/semester \$20.00 to \$40.00/summer session
Student activity fee ⁸	\$7.45 or \$14.90/semester prorated fees/summer sessions	\$12.50 or \$20.00/semester
Technology fee, fall or spring semesters ⁹		
Sophomores	\$15.00, \$30.00, \$58.00	\$9.65, \$19.25, \$28.90
Juniors	\$14.00, \$28.00, \$55.00	\$8.60, \$17.15, \$25.70
Seniors	\$13.00, \$26.00, \$51.00	\$7.50, \$15.00, \$22.50
All others	\$8.00, \$16.00, \$32.00	
Technology fee, summer sessions ¹⁰		
Sophomores	prorated fee	\$9.65, \$14.45
Juniors	prorated fee	\$8.60, \$12.85
Seniors	prorated fee	\$7.50, \$11.25
Transcripts	\$5.25	\$5.25

³ Applicable to both in-state and out-of-state students.

⁴ Fee is assessed if deferment option is selected on the schedule confirmation/account statement.

⁵ Students enrolled in more than 3 credit hours at Bloomington pay a mandatory health service fee. Those enrolled in 3 or fewer credit hours will be charged on a full-cost, fee-for-service basis for services of the IU Health Center.

⁶ After drop/add period (100 percent refund period), students will be assessed \$13.00 in Bloomington and \$13.65 in Indianapolis for each dropped or added course, section change, change of arranged hours, or credit/audit change.

⁷ A late registration processing fee will be assessed any student who does not register during the scheduled registration period. On the Bloomington campus, the fee is \$35.00 for students who register by the last Friday before classes begin and increases by \$10.00 on the Monday of each successive week to a maximum of \$65.00. On the Indianapolis campus, a \$20.00 late registration fee is in effect upon conclusion of registration through the end of the first week of classes, increasing by \$20.00 each successive week to a maximum of \$80.00. In Indianapolis summer sessions, a late registration fee of \$20.00 is assessed the first week, and \$40.00 the second week and thereafter.

⁸ On the Bloomington campus, students enrolled in more than 3 credit hours during the fall and spring semesters pay a mandatory student activity fee of \$14.90. Students enrolled in 3 or fewer credit hours pay \$7.45. Summer session students pay a prorated fee dependent on the number of hours they are enrolled: more than 3 credit hours or 3 or fewer credit hours. On the Indianapolis campus, students enrolled in 1 to 8 credit hours pay a mandatory student activity fee of \$12.50 per semester. Students enrolled in 9 or more credit hours pay \$20.00 per semester.

⁹ A technology fee, based on class standing, will be assessed according to the number of enrolled credit hours as follows: 3 credit hours or fewer; greater than 3 through 6 credit hours; greater than 6 credit hours.

¹⁰ The Indianapolis campus assesses a technology fee, based on class standing, according to the number of enrolled credit hours as follows: 3 or fewer credit hours; greater than 3 credit hours. See the bursar on the Bloomington campus for more information on the summer technology fee.

Fee Refund Schedule

Time of Withdrawal	Refund	Time of Withdrawal	Refund
9 through 16 weeks		1 week or less	
During 1st week of classes or through drop/add period	100%	During 1st day of classes	100%
During 2nd week of classes	75%	During 2nd day of classes	50%
During 3rd week of classes	50%	During 3rd day of classes and thereafter	None
During 4th week of classes	25%		
During 5th week of classes and thereafter	None	The refund policy applies to credit hour fees and all course-related fees.	
5 through 8 weeks		Procedure	Students must apply to the Office of the Registrar when they withdraw from classes. See the <i>Schedule of Classes</i> for more information.
During 1st week of classes or through drop/add period	100%		
During 2nd week of classes	50%		
During 3rd week of classes and thereafter	None	Student Financial Assistance	Students can obtain information about financial assistance through the financial aid office, through the student employment office, or through their schools and departments. Contact the Human Resources Administration for information about faculty/staff fee courtesy.
2 through 4 weeks			
During the 1st and 2nd day of classes or through drop/add period	100%		
During 3rd and 4th day of classes	50%		
During 5th day of classes and thereafter	None		

Veterans Benefits Eligible students will receive veterans benefits according to the following scale, which is based on the number of credit hours in which the student is enrolled.

Undergraduate Benefits	Fall & Spring Semesters	Summer I	IUPUI Summer II	Bloomington Summer II
full	12 or more	4	4	6
three-quarters	9-11	3	3	4-5
one-half	6-8	2	2	3
tuition only	fewer than 6	1	1	1-2
Graduate Benefits				
full	8 or more	4	4	4
three-quarters	6-7	3	3	3
one-half	4-5	2	2	2
tuition only	fewer than 4	1	1	1

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 Office of Disabled Student Services and Veterans Affairs of any schedule change that may increase or decrease the number of benefits allowed.

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

Veterans and veteran dependents must notify their veteran benefit representative on campus in person at the time of registration.

Indiana University Bulletins

You may want to explore other schools of Indiana University. The following is a complete list of our bulletins. Please write directly to the individual unit or campus for its bulletin.

Indiana University Bloomington

College of Arts and Sciences
School of Business¹
School of Continuing Studies²
School of Education³
School of Health, Physical Education, and Recreation
School of Journalism
School of Law—Bloomington⁴
School of Library and Information Science
School of Music
School of Optometry
School of Public and Environmental Affairs⁵
University Division
University Graduate School

Indiana University—Purdue University at Indianapolis

School of Allied Health Sciences
School of Business¹
School of Continuing Studies²
School of Dentistry
School of Education³
School of Engineering and Technology (Purdue University)
Herron School of Art
School of Law—Indianapolis⁴
School of Liberal Arts
School of Medicine
School of Nursing⁵
School of Optometry
School of Physical Education
School of Public and Environmental Affairs³
School of Science (Purdue University)
School of Social Work
IUPUI University Division
University Graduate School

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

¹ There are two separate bulletins for the Bloomington and Indianapolis undergraduate business programs; please specify which of the two bulletins you need. There is only one bulletin that describes the graduate business programs for both Bloomington and Indianapolis.

² Bulletins on the General Studies Degree Program, Independent Study Program, Division of Labor Studies, and Division of Professional Development are available from this school.

³ Two bulletins are issued: graduate and undergraduate.

⁴ There are two Indiana University schools of law. Be sure to specify whether you want a bulletin of the Bloomington or Indianapolis school.

⁵ There are two bulletins for the School of Nursing. One describes both undergraduate and graduate programs; the second describes the graduate program only.

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