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2007-09 BULLETIN



School of **Health Sciences** Catalog

Purdue University Publications

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College of Consumer
and Family Sciences
College of Education
College of Engineering
School of Health Sciences
College of Liberal Arts
Krannert School of Management
School of Nursing
School of Pharmacy
and Pharmaceutical Sciences
College of Science
College of Technology
School of Veterinary Medicine

Other Publications

Facts About Purdue
General Information
Getting Involved at Purdue
Introducing Purdue University
Nurturing the Spirit
Parent Handbook
Summer Session
University Regulations
Welcome to Purdue Campus Map



School of Health Sciences

2007 – 2009

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About Purdue University

Serving people was Purdue University's founding principle as the Indiana link in the nationwide chain of land-grant colleges and universities. Purdue, which opened its doors on September 16, 1874, with a student body of 39 and a staff of six, has grown into a world-class educational system of 69,600 students and about 18,400 faculty and staff members across Indiana. The West Lafayette campus comprises 39,200 students and nearly 15,000 faculty and staff members.

Purdue graduates have been to the moon, to the highest levels of business and government, and to Sweden to receive the Nobel Prize. The roster of about 384,000 living alumni includes noted CEOs, agriculturalists, scientists, teachers, engineers, pharmacists, journalists, veterinarians, and athletes who have made notable contributions to our society.

Purdue has been a vital resource to the people of Indiana, the nation, and the world — from its land-grant foundation to its status today as a prominent land-, sea-, and space-grant university that champions its missions of learning, discovery, and engagement.

Making higher education available to the people was the plan in 1862 when President Lincoln signed the Morrill Act. That act gave public lands to any state that would use proceeds from the sale of the land to support a college that would teach agriculture and the mechanic arts.

Three years after passage of the land-grant act, the Indiana General Assembly voted to take advantage of the provisions. Competition among various areas of the state culminated in 1869 when the assembly accepted \$150,000 from Lafayette civic leader John Purdue, \$50,000 from Tippecanoe County, and 100 acres of land from local citizens. In appreciation, the institution was named Purdue University and was established in West Lafayette. The University officially opened for classes September 16, 1874.

Purdue quickly established prominence in agriculture and engineering, answering the immediate needs of the people. And it has since built solid reputations in veterinary medicine, technology, a range of sciences, pharmacy, nursing, management, liberal arts, health sciences, education, and consumer and family sciences.

The physical growth of campus also has been dramatic. Originally the campus consisted

of three buildings rising out of Indiana farmland. Today the main campus encompasses 160 major buildings. Nearly \$600 million worth of new construction and renovation is under way or scheduled to occur at Purdue in West Lafayette during the first seven years of the new millennium.

The Purdue system has expanded to include Purdue campuses at Fort Wayne, Hammond, and Westville, and degree programs at Indiana University-Purdue University Indianapolis and Indiana University-Purdue University Columbus. Purdue's College of Technology exists in 10 Indiana communities in addition to the West Lafayette campus.

The mission of answering the people's needs goes beyond educating productive graduate and undergraduate students. Purdue is a highly respected research institution, with research and sponsored program expenditures of over \$395.9 million in the 2004–05 fiscal year on the West Lafayette campus. In addition, the University offers its expertise to the state of Indiana in numerous ways, as well as to business and industry, retailers, and teachers.

Purdue's impact in Indiana is evident daily through its spectrum of learning, discovery, and engagement. The University has an annual impact of more than \$2.5 billion on Indiana's economy. Purdue's march toward preeminence has solid footing in the development of Discovery Park, where the University's talent and ideas are pacesetters in interdisciplinary, world-leading nanotechnology and biosciences research and discovery.

Outreach programs include the Purdue University Cooperative Extension Service, with sites in each of Indiana's 92 counties serving as a gateway to lifelong learning. The Office for Continuing Education and Conferences serves tens of thousands of adult learners annually through Purdue courses for personal and professional development offered on campus, off campus, and by distance education.

Purdue is also a cultural and recreational hub for people in northwestern Indiana. The Edward C. Elliott Hall of Music, one of the largest proscenium theaters in the world, houses 6,025 spectators for music, dance, theatre, and pop entertainment. Boilermaker fans crowd Ross-Ade Stadium, Mackey Arena, and the Intercollegiate Athletic Facility for Big Ten Conference football, basketball, and volleyball.

Purdue University ranks among the 25 largest universities in the United States. Its position of leadership and influence in teaching and research stems in large part from its worldwide acclaim in engineering, science, and technology, but its preeminence is bolstered by an exciting array of academic disciplines. On the West Lafayette campus, there are 370 majors/specializations to choose from within the following colleges and schools:

College of Agriculture

Among the nation's highest ranked and most prestigious institutions, the college offers excellent teaching, research, extension, and international programs. More than 40 programs of study prepare scientists, engineers, business representatives, producers, information specialists, and resource managers for professional careers in the world's food and natural resource systems. See www.agriculture.purdue.edu/oap.

College of Consumer and Family Sciences

The college, one of the largest and highest ranked of its kind in the nation, prepares men and women for careers related to the needs of families and consumers. Students can choose a bachelor of science degree program from 13 majors in the areas of family studies and child development, consumer sciences and consumer business, hospitality, nutrition, health and fitness, tourism, and education. The Department of Hospitality and Tourism Management also offers an associate degree program. See www.cfs.purdue.edu.

College of Education

The state accredited and nationally ranked and accredited College of Education prepares outstanding teachers, instructional leaders, administrators, school counselors, counseling psychologists, curriculum specialists, teacher educators, and educational researchers for the essential roles they play in guiding the education of our youth. Through interdisciplinary instructional programs in teacher education, research in the educational process, and engagement with Indiana schools, College of Education graduates are well prepared for a rewarding career in education. The dedicated and experienced faculty members, some of whom are known internationally as experts in their fields, are respected leaders in a wide range of curriculum areas and

are actively engaged in research. Together our students and faculty share a passion for learning, teaching, and changing the world. The college offers undergraduate and graduate degrees in a variety of disciplines. In addition to the teacher education programs offered by the College of Education, teacher preparation programs are also offered through other colleges and schools across campus. See www.education.purdue.edu.

College of Engineering

The College of Engineering is internationally known for the quality and scope of its programs. Students launch their careers with a common first-year program in the Department of Engineering Education. Once they have completed that program, they choose from undergraduate curricula in aeronautics and astronautics, agricultural and biological, biomedical, chemical, civil, computer, construction engineering and management, electrical, food process, industrial, interdisciplinary, land surveying and geomatics, materials, mechanical, or nuclear engineering. Every school and department offers graduate degree programs. See www.engineering.purdue.edu.

School of Health Sciences

The school offers a variety of health-related study areas, including medical technology, medical physics, health physics, industrial hygiene, and related environmental and general health science programs. It also administers the pre-medical, pre-dental, and pre-allied health programs, including occupational and physical therapy and dental hygiene. Students completing the programs and gaining experience in the field may qualify for professional certification. See <http://healthsciences.purdue.edu>.

College of Liberal Arts

The college offers essentially all of the traditional disciplines of the humanities, social and behavioral sciences, and creative arts. Majors and minors are available in 11 departments: audiology and speech sciences; communication; English; foreign languages and literatures; health and kinesiology; history; philosophy; political science; psychological sciences; sociology and anthropology; and visual and performing arts. Students can prepare themselves in more than 50 majors, including 11 undergraduate interdisciplinary programs. See www.cla.purdue.edu.

Krannert School of Management

Degree programs include accounting, management, industrial management, and economics. Accounting and management programs focus on finance, marketing, operations, human resources, and strategic planning. The industrial management program combines management and technical education with a manufacturing management, engineering, or science minor. The accounting program combines a management background with extensive education in accounting principles and practices. All programs include coursework in the arts, humanities, and international and cross-cultural aspects of modern business. See www.krannert.purdue.edu.

School of Nursing

The School of Nursing prepares students from diverse backgrounds for careers as professional nurses. The nationally accredited undergraduate program prepares a student for licensure as a registered nurse (R.N.) and for entry into graduate studies. A diverse mix of liberal arts, science, and nursing courses gives students a scientific, multidisciplinary education. Small clinical classes give students practical experience in health assessment, maternal child care, mental health, acute care, and community health nursing. This program admits nursing majors at the freshman year and offers early, hands-on clinical courses. The R.N.-to-B.S.N. program allows registered nurses to complete their baccalaureate requirements. The Second Degree Baccalaureate Program allows students who hold a degree in another field to pursue a B.S. in Nursing. The master's degree program prepares advanced practice nurses. The Doctor of Nursing Practice (D.N.P.) delivers a curriculum from post-baccalaureate to the practice doctorate degree, with an emphasis on care of rural, underserved populations. See www.nursing.purdue.edu.

School of Pharmacy and Pharmaceutical Sciences

The school offers an accredited professional program leading to the Doctor of Pharmacy degree. This program combines a basic and applied science background as well as clinical experience allowing students to function as licensed pharmacists to provide pharmaceutical care. The two prepharmacy years can be taken either at Purdue's School of Pharmacy or at another institution.

The school also has a four-year, non-licensure-eligible B.S. in Pharmaceutical Sciences degree designed for entry-level pharmaceutical industry positions or as a foundation for advanced education. See www.pharmacy.purdue.edu.

College of Science

Actuarial science, biological sciences, chemistry, computer science, earth and atmospheric sciences, mathematics, physics, statistics, math and science secondary school teaching, and interdisciplinary science programs prepare students for immediate careers or advanced study. Premedical, pre dental, and preveterinary options; a cooperative education program; study abroad; and honors programs are available. Students may pursue official minors in other areas outside their major. Enrollment in sciences while deciding on a major in any field is encouraged. A highly qualified faculty, state-of-the-art facilities, and ongoing research keep teaching up to date. See www.science.purdue.edu.

College of Technology

The eight departments and 22 specializations in the College of Technology prepare students to meet the technological needs of business, industry, and government. Technology students begin taking courses in their major as early as the freshman year. Courses and other opportunities allow students to experience a variety of hands-on, real-world applications. The college awards associate, bachelor's, and graduate degrees. See www.purdue.edu/technology.

School of Veterinary Medicine

This professional school, which graduated its first class in 1963, has assumed a leading position nationally and internationally in veterinary education. The school is one of only 28 in the United States that grant the Doctor of Veterinary Medicine degree. The Veterinary Technology Program is accredited by the American Veterinary Medical Association (AVMA) and awards Associate of Science and Bachelor of Science degrees. The Associate of Science degree is also offered via distance learning. The Veterinary Technology Program at Purdue is the only such program in the state of Indiana and one of only two AVMA programs administered by a school of veterinary medicine. See www.vet.purdue.edu/admissions.

The Graduate School

All programs of graduate study and research leading to advanced degrees are under the Graduate School's jurisdiction. Programs of study lead to the degrees of Doctor of Philosophy, Doctor of Audiology, Doctor of Nursing Practice, Educational Specialist, Master of Arts, Master of Arts in Teaching, Master of Fine Arts, Master of Business Administration, Master of Science, and

Master of Science in various professional fields. More than 70 robust programs with research- and practice-oriented curricula are available in options that include the sciences, arts, engineering, agriculture, management, and humanities as well as exciting interdisciplinary programs. The Graduate School also offers several graduate-level, academic credit certificate programs. See www.gradschool.purdue.edu.

The College of Pharmacy, Nursing, and Health Sciences

The College of Pharmacy, Nursing, and Health Sciences brings together, in one interdisciplinary organization, the various academic units on campus directly concerned with education in human health-care services. These schools provide the state with qualified graduates in the respective health fields and accommodate anticipated growth in the diversified areas related to health-care services.

Each of the three schools — Pharmacy and Pharmaceutical Sciences, Nursing, and Health Sciences — operates as a self-managed school. The dean of the combined college is Prof. Craig Svensson, who is also the dean of the School of Pharmacy and Pharmaceutical Sciences. Prof. Julie Cowan Novak is the head of the School of Nursing, and Prof. George A. Sandison is the head of the School of Health Sciences.

School of Health Sciences

“Health Sciences” is a designation used at Purdue University to identify a group of professional programs directed toward people concerned with improving the population's health and environment. The school's primary purpose is to provide quality education and preparation of students at both the undergraduate and graduate levels.

The School of Health Sciences evolved from several interdisciplinary activities relating to public, radiological, and occupational health and to the control of environmental hazards. The school has grown to include a wide variety of pre-allied and clinical health areas as well as the environmental, radiological, and occupational fields that were the foundation of the school.

Promotion of acceptable levels of health within the workplace, the community, and the environment now depends upon the development of skills and knowledge involving several different disciplines. The role of the School of Health Sciences is to provide the individuals responsible for solving future health and environmental problems. An interdisciplinary approach is used to educate and prepare students for various fields associated with a large variety of health-related problems in our society.

Many long-term gains in human health have resulted from advances in environmental control and sanitation, improved diagnostic procedures, and advances in the life sciences. The emphasis on the prevention of illness is taking on new dimensions, especially in terms of reducing hazards in the public environment, in the workplace, and in the home. Prevention will continue to have a high priority within the health industry.

Rapid industrialization, accelerated technological changes, and an increased population concentrated in urban areas have contributed to the complexity of maintaining a healthful environment. As we continue to identify, evaluate, and modify the toxic agents and other environmental factors that affect human health, we can expect to make substantial achievements in the prevention of disease.

The School of Health Sciences provides the personnel needed to cope with today's health problems. The curriculum is interdisciplinary to take advantage of University-wide expertise and facilities. The school responds to public needs in Indiana and the nation as well as to professional standards, student interests, research opportunities, governmental requirements, and intellectual stimuli.

Goals

The programs of the school are designed to achieve three major goals. The first goal is to achieve excellence in teaching. We seek to provide a quality education that will prepare students to meet the needs of society as professionals in the health sciences, with emphasis on radiological health (health physics, medical physics), occupational health (industrial hygiene), toxicology, clinical laboratory science (medical technology), and pre-allied (clinical) health. As part of this education, we want to assure that health sciences students develop an interdisciplinary knowledge base related to their career objectives. To strengthen classroom experiences, an internship program is a highly desirable component of the academic program. In all of these activities, we strive for teaching that is current, stimulating, and essential to student academic needs.

The second goal of the school is to foster excellence in research. We strive to conduct high-quality, innovative research and other scholarly activities that will lead to new knowledge relating to human health and to train qualified students in research methodology and the scientific method. Students pursuing advanced degrees in health sciences will be involved in faculty-directed research in areas including radiological health (medical physics, health physics, radiobiology), occupational and environmental health (industrial hygiene, ergonomics, environmental health), and toxicology. Such research is critical to a more complete understanding of society's complex health problems.

A third goal of the school is to demonstrate excellence in service to students and to our constituents. Our primary focus is our students, and we seek to provide them with excellent counseling services, including academic counseling, career counseling, and related services. When appropriate, we endeavor to assist the University, the community, the state of Indiana, and the nation in serving the health needs of our citizens. This is accomplished through sponsoring or providing continuing education or other special courses and through participation of our faculty and professional staff on task forces, committees, professional organizations, and other groups that can benefit from their expertise and knowledge.

Areas of Study

The various curricula in the school are designed around a common core of courses in mathematics, physics, biology, and chemistry. During the first year and in most cases the second, the school's programs are similar enough that switching to another major can be done without loss of progress toward your degree objective.

Decisions on options within the various areas usually need not be made until the sophomore year or, in some cases, not until the junior year. Students may choose to pursue a broad health sciences education as undergraduates and then specialize in an area of major interest at the graduate level. Choosing a major area of interest and the specific course option is often difficult, but help is available. You will have an academic advisor who will provide the information needed to make your decision. Faculty in each area of study are also available and interested in assisting you in making these sometimes difficult career decisions.

Areas of study in the school include:

Environmental Health Sciences. A broad science curriculum with community/public health emphasis, including studies of the injurious effects of chemical, physical, and biological agents on living organisms and strategies to reduce human exposure to disease-producing agents in the environment. Page 27.

Radiological Health Science (Health Physics and Medical Physics). Prepares individuals for the scientific and practical procedures involved in protecting the population and the environment from the harmful effects of radiation and the use of radiation and other physical agents in the diagnosis and treatment of disease. Page 29.

Occupational Health Science (Industrial Hygiene). The study of hazardous chemical, physical and biological agents, and conditions in the occupational environment, with emphasis on the anticipation, recognition, evaluation, and control of factors that affect worker and community health. Page 35.

Clinical Laboratory Sciences (Medical Technology). A branch of medicine concerned with the performance of clinical laboratory tests that provide information to aid physicians and pathologists in the diagnosis and treatment of disease. Page 40.

General Health Sciences. A broad health sciences-based program for students desiring a strong background in the basic sciences and health-related courses. This curriculum prepares students for careers in government, health-care settings, industry, research, and for entrance into the professional schools of medicine, physician's assistant, forensic sciences, health information administration, dentistry, cytotechnology, optometry, or occupational/physical therapy. Page 43.

- **Pre-medicine.** A track of coursework that is formally structured as a concentration within three existing curricula: general health sciences, occupational health science, and radiological health science. Medical schools seek to admit students with diverse backgrounds that include a strong foundation in the natural sciences (biology, chemistry, mathematics, and physics) and solid coursework in the social sciences and humanities. Pages 32, 39 and 47.
- **Minors.** Currently the School of Health Sciences offers 3 minors: occupational health, radiological health, and forensic sciences. The school also allows its students to minor in over 30 diverse areas such as occupational leadership, communication, and Spanish, to name a few.

Additional Career Information

Prospective students, their parents, teachers, directors, and advisors who would like additional information about specific areas in health sciences should go to the School of Health Sciences Web site (<http://healthsciences.purdue.edu>) for the appropriate descriptive literature. For further information, call the school's main office at (765) 494-1419 or the Office of Student Services at (765) 494-8102.

Admissions

Admissions Inquiries and Procedures

All inquiries about admissions (whether you are entering from high school, transferring from another institution, or re-entering after being out of school) should be addressed to: Office of Admissions, Purdue University; Schleman

Internship Programs

The School of Health Sciences encourages internship experiences with industrial, governmental, academic, medical, research, and consulting agencies. This is an excellent way to expand on classroom knowledge and learn firsthand from practical, real-world experience. In the clinical laboratory sciences (medical technology) program, a one-year clinical program at an approved hospital is required. Students majoring in occupational, environmental, and radiological health sciences are strongly encouraged to participate in a structured practice experience at an approved site during the summer. Most of these opportunities are paid positions. The Office of Student Services and the school faculty will assist students in locating appropriate internship sites.

Research

The major research interests in the health sciences include the broad areas of occupational and environmental health (industrial hygiene, ergonomics, environmental health), radiological health (health physics, medical physics, radiobiology), and toxicology. Broad faculty expertise, excellent facilities, and extensive equipment combine to enhance opportunities for creative, scholarly research experiences for advanced students.

Purdue Research Foundation

A nonprofit corporation affiliated with Purdue University, the foundation serves as a fundraising and development agency providing for educational and research needs of Purdue beyond state-appropriated resources. Research and training grants and contracts from industry and government are administered by the foundation. Patent policy and development also are Purdue Research Foundation responsibilities.

Hall; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; admissions@purdue.edu; (765) 494-1776.

Your first inquiry concerning admission should include (1) the amount of education you have completed; (2) your plans for further education, indicating your area of interest; and (3) the approximate date of your entrance to Purdue.

When you are entering directly from high school, the Office of Admissions suggests that you file your application for admission early in your senior year. Transfer students should apply as early as possible.

Campus Visits

A visit to the campus and an interview with an admissions counselor will help you determine which educational programs at Purdue are in keeping with your educational background and your future career interests. Such a campus visit is especially appropriate during your junior year in high school.

The Office of Admissions is open each weekday from 8:00 a.m. to 5:00 p.m. No appointment is necessary; however, if you would like a tour of the campus, contact the Office of Admissions before your visit.

Students interested in Purdue have a variety of opportunities to visit the campus. Some programs, such as Fall Preview Days and Introducing Purdue, offer more formal agendas that include admissions presentations, school and program sessions, and campus tours. Prospective students and their families also can make individual visits; the Office of Admissions offers multiple visit sessions on a daily basis, Monday through Friday, including walking tours of campus. Students planning a visit to campus should first contact the Office of Admissions or visit the Admissions Web site — www.purdue.edu/Admissions/Undergrad — for further information.

Core 40 — Indiana Students

Purdue University applauds the state's efforts to strengthen Indiana's high school students' academic preparation and encourages all students to complete the Core 40 requirements. In addition to considering high school courses, Purdue will continue to use other factors such as grade point average, class rank, trends in achievement, honors courses, and test scores when reviewing applications for admissions. We will evaluate applicants on an individual basis and in relation to their requested majors. Program limitations also will continue to be a factor in admission to certain majors.

Admissions Criteria

Your admission as a new student into the School of Health Sciences at Purdue is determined by a holistic review that evaluates rank in class, test scores, ability to be successful, grade average in college preparatory subjects, grades in courses related to the degree objective, trends in achievement, completion of minimum high school subject matter expectations (see table), the strength of the college preparatory program, personal attributes, and information provided by your high school counselor. All applicants who have not completed a full year of college work are required to provide SAT or ACT scores (including the writing sections of these tests). Students are encouraged to take either the SAT or the ACT in the spring of their junior year. All applicants must graduate high school or have a GED.

Subjects	Minimum Semester Expectations
English	8
Academic math*	6
Laboratory science†	6
Foreign language	4

* Includes algebra, geometry, trigonometry, calculus, etc.

† Includes biology, chemistry, physics, earth/space science, physiology/anatomy.

Because this catalog is used for two to three years, you should refer to www.purdue.edu/Admissions/Undergrad for the most current and accurate information about admission to the School of Health Sciences.

Advance Deposit on Fees

If you are a new student admitted for the fall semester, you must make a nonrefundable advance deposit of \$100. This deposit is to reserve a place for you on the new student roster. Students admitted on or before April 10 must submit the deposit by May 1. Those admitted after April 10 must submit the deposit within three weeks (21 days) after the date of the offer of admission.

If you receive an offer of admission but fail to make the required deposit of \$100 within the time allotted, you automatically forfeit your right to a place on the new student roster.

The \$100 advance deposit will be applied to your first semester fees and is not associated with your University housing application or contract.

Early Enrollment for Superior Students

If you are a high school student with a highly superior scholastic record during the first three years of high school, you may qualify for admission to Purdue without high school graduation.

The regular entrance requirements are supplemented by certain objective measurements of your qualification to advance to the university level. In this way, the University tries to recognize and provide for individual rates of learning and achievement.

As a nongraduate of high school, you will be considered for admission if you (1) have earned 12 or more credits toward graduation; (2) have a highly superior school record; (3) are strongly recommended by your principal; (4) have the approval of your parents for college entrance without high school graduation; (5) qualify by your performance on prescribed admissions tests; and (6) are approved by the University Admissions Committee.

Purdue cannot guarantee high school diplomas under this arrangement, but it cooperates with whatever arrangement the state or local school system may have for awarding a high school diploma to a successful participant in this plan.

Admission with Advanced Standing

On the basis of your CEEB Advanced Placement Examination, Purdue advanced credit examination, or high school record, you, as a first-year student, may receive advanced credit and/or advanced placement.

Transfer Students

If you are transferring from another college or university, you must comply with the following procedures:

1. Submit an official undergraduate application for admission.
2. Forward official transcripts of work done at institutions previously attended (both high school and college). A separate transcript must be provided by each institution, regardless of whether credit is requested.

To be considered for admission, transfer students should apply as soon as possible for the term they wish to enter. To be admitted, students must have the necessary grade point average at the time they apply (and any required college coursework) and meet high school subject matter requirements.

Because this catalog is used for two to three years, you should refer to www.purdue.edu/Admissions/Undergrad for the most current and accurate information about admission to the School of Health Sciences.

Transfer (or Advanced) Credit

Credit for courses at Purdue University will be given for work of equivalent character and amount successfully completed at another accredited college. Advanced standing will be determined on the basis of these credits. Advanced credit will be regarded as provisional and may be withdrawn by the director of admissions upon recommendation of the head of the department concerned if dependent work is not satisfactorily completed.

Purdue University is a supporter of and a participant in the Indiana Core Transfer Library (CTL), a growing list of courses that will transfer from one public Indiana institution to another. As the Core Transfer Library is developed, information will be available at www.che.state.in.us.

When credit earned at another college or university is transferred to Purdue and accepted toward advanced standing, the credit is converted into terms of Purdue courses and applied to the program of study. It remains for you, the student, to complete the program, and your schedule of courses each term will be adjusted accordingly. It does not follow that your classification at Purdue or the time necessary for completion of the required work for a degree will be in line with what was expected at the previous institution. Grades are not transferred; only credits in courses are recorded.

Students participating in college-credit courses taught concurrently for high school and college credit during the regular school day by local high school teachers must validate the credit by submitting satisfactory results on the College Board Advanced Placement Examination or the Purdue advanced credit examination, as determined by the subject department. The determination of use of transfer credit in part or in full to satisfy graduation requirements is the responsibility of the school head or his or her designated representative, in accordance with the regulations of the University faculty.

All credentials are submitted with the understanding that they become the property of Purdue University.

Early Registration — Day on Campus

The Student Access, Transition and Success Programs and the Office of Admissions invite you to campus for one day of early registration during the summer before your first semester as a new student. This day is set aside for you to meet with your academic counselor and to select your first-semester classes. The University then will proceed with the registration process and mail you a fee statement and your class schedule.

Student Orientation and Support Programs

Student Access, Transition and Success Programs (SATS) is responsible for the coordination of initiatives that help students prepare for, transition into, and succeed in Purdue University's academically rigorous environment.

SATS, a division of the Office of Enrollment Management, offers several programs to help beginning and transfer students adjust to Purdue. Boiler Gold Rush is for new, beginning students and includes a variety of activities designed to help them make a smooth transition into Purdue. Students who begin their studies at other times of the year also have the opportunity to participate in orientation. Invitations to those different programs are mailed to the students at the appropriate times.

SATS programs include Day on Campus, Learning Communities, Orientation Programs (such as Boiler Gold Rush and Welcome Programs), Parent and Family Programs, the Purdue Opportunity Awards program, the Purdue HelpDesk, and the West Central Indiana Regional Twenty-first Century Scholars site. For more information on any of these programs, please visit www.purdue.edu/sats, e-mail sats@purdue.edu, or phone (765) 494-9328. The SATS address is Stewart Center, Room G77; 128 Memorial Mall Drive; West Lafayette, IN 47907.

Nondegree Students

If you are an adult living near one of Purdue's campuses and you want to take a course at the University without seeking a degree or following a regular plan of study, you can apply for admission as a nondegree student. You must show that you have the background and course prerequisites necessary for the course or courses in which you are interested. The Office of Admissions will advise you on admissions procedures.

International Students

If you are an applicant from another country, your application and supporting documents will be evaluated by the staff in the Office of International Students and Scholars. You will be admitted on the basis of credentials certifying the completion of preparatory studies comparable to requirements for United States citizens applying at the same entry level. Guidelines for determining admissibility are specified in the "Admissions Criteria" section of this publication. English translations must accompany transcripts and other credentials. You also must submit satisfactory evidence of your ability to comprehend English as shown by a TOEFL (Test of English as a Foreign Language) score of at least 550 (213 computer-based score, 79 Internet-based score). The minimum score for First-Year Engineering applicants is 567 (233 computer-based score, 88 Internet-based score).

You must furnish sufficient evidence of adequate financial support for your studies at Purdue.

The Office of International Students and Scholars will assist you in entering the United States and the University. The office also will provide other services such as orientation programs, immigration advising, and personal and cross-cultural counseling. See the Web site at www.iss.purdue.edu.

Military Training

Reserve Officers' Training Corps (ROTC) is available for all men and women who are full-time students. You can pursue military courses in conjunction with the academic curriculum and receive academic credits. If you complete the program, you will receive a commission as an officer in the Army, Navy, Marine Corps, or Air Force. You do not incur a commitment until you are accepted into the program and enroll in the third-year course or accept an ROTC scholarship. Scholarships that assist with tuition, incidental fees, and textbooks are available through all four services. A monthly allowance is available for students who sign a contract. Additional information is available in the College of Liberal Arts catalog, or you can contact any of the military departments directly. All ROTC offices are located in the Armory.

Time of Entrance

Purdue University offers instruction during two semesters and summer session. You can begin most programs of study with any semester or during the summer. The semesters start in August and January, and the summer modules begin in May, June, and July. Students may begin the following programs only at the times stated: flight, nursing, and the Undergraduate Studies Program, fall; the specific veterinary technology program you are interested in will determine when you may begin your studies.

Proof of Immunization

Indiana state law requires proof of immunization for the following vaccine-preventable diseases as condition of enrollment on residential campuses of state universities: measles, mumps, rubella, diphtheria, and tetanus. In addition, international students must provide documentation that they have been tested for tuberculosis after arriving in the United States. Information regarding compliance will be forwarded to all admitted students.

The Purdue Statewide Academic System

Admission to Another Purdue Campus

Purdue's educational system provides students access to a full complement of the University's faculty, resources, and academic programs. Whether you're enrolled at Calumet, Fort Wayne, North Central, or West Lafayette, you can pursue a degree from Purdue University and fulfill your career aspirations.

As one of the nation's top research institutions, Purdue is recognized around the world for the quality of its programs and its graduates. When you pursue your goals at a Purdue campus, you'll earn your share of that reputation. You'll enjoy all the challenges as well as the benefits and rewards associated with a preeminent university. Purdue University's quality is available across the state, and the primary goal of each campus is to help each student excel through discovery, learning, and engagement.

For information about what is offered at each Purdue University campus, use the following contact list:

Calumet	www.calumet.purdue.edu adms@calumet.purdue.edu
Fort Wayne	www.ipfw.edu ASK@ipfw.edu
North Central	www.pnc.edu admissions@pnc.edu
West Lafayette	www.purdue.edu admissions@purdue.edu

There also are Purdue programs at Indiana University-Purdue University Indianapolis. Go to www.iupui.edu for more information.

Admission to the College of Technology — Statewide

The College of Technology resides in 10 Indiana communities in addition to the West Lafayette campus. A unique partnership of education, business, industry, and government, these community-based locations feature quality curriculum requirements, faculty who are as highly qualified as their West Lafayette campus peers, low student-to-faculty ratios, and the opportunity to earn a degree from Purdue University.

Technology programs at all locations emphasize hands-on, real-world applications to engineering principles. Students learn marketable skills to meet the defined needs of Indiana busi-

ness and industry. Purdue Technology graduates are well prepared for immediate employment and enjoy one of the University's highest job-placement rates and some of the highest starting salaries for undergraduate majors.

In addition to academics, these College of Technology locations offer opportunities to get involved in on-campus and community activities. They also provide a full range of student services to ensure a rewarding college experience and future success.

The College of Technology Web site is www.purdue.edu/technology. For information about what is offered at each location, contact the Office of Admissions on the West Lafayette campus at admissions@purdue.edu or the location that interests you. The following list provides contact information for each location.

West Lafayette

Niaz Latif
(765) 494-1101
latif@purdue.edu

Anderson

319 Cottage Avenue
Anderson, IN 46012-3404
Phone: (765) 641-4551
E-mail: techanderson@purdue.edu

Columbus

4555 Central Avenue, Suite 1200
Columbus, IN 47203-1892
Phone: (812) 314-8526
E-mail: techcolumbus@purdue.edu

Greensburg

422 East Central Avenue, Suite 2
Greensburg, IN 47240-1834
Phone: (812) 622-8686

Indianapolis

2175 South Hoffman Road
Indianapolis, IN 46241-3650
Phone: (317) 484-1824
E-mail: techindianapolis@purdue.edu

Kokomo

2300 South Washington Street
Kokomo, IN 46904-9003
Phone: (765) 455-9339
E-mail: techkokomo@purdue.edu

Lafayette

5500 State Road 38 East, AD 2900
Lafayette, IN 47903-9405
Phone: (765) 496-6886
E-mail: techlafayette@purdue.edu

Muncie

Ball State University AT 223
Muncie, IN 47306-0256
Phone: (765) 285-5554

New Albany

4201 Grant Line Road
New Albany, IN 47150-2158
Phone: (812) 941-2353
E-mail: technewalbany@purdue.edu

Richmond

Indiana University
2325 Chester Boulevard
Richmond, IN 47374-1220
Phone: (765) 973-8228
E-mail: techrichmond@purdue.edu

South Bend

1733 Northside Boulevard
South Bend, IN 46634-7111
Phone: (574) 520-4180
E-mail: techsouthbend@purdue.edu

Readmission

Students who are dropped from Purdue University for academic deficiency must be out of the University for at least one semester (not including summer session) and must apply for readmission through the Office of the Dean of Students. There are deadlines for submitting an application with a \$100 fee, and for removing all encumbrances. A student may strengthen his or her application by submitting evidence of successful coursework from another institution. Information about the readmission process is available from the Office of the Dean of Students; Schleman Hall; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; (765) 494-1747.

Nondiscrimination Policy Statement

Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

Purdue University views, evaluates, and treats all persons in any University related activity or circumstance in which they may be involved, solely as individuals on the basis of their own personal abilities, qualifications, and other relevant characteristics.

Expenses

The cost of attending Purdue University varies, depending on a variety of factors, including where a student chooses to live; travel expenses; food costs; enrollment in a special program; date of entry; the college or school in which you are enrolled; etc. Basic minimum costs for the two-semester 2006–07 school year on the West Lafayette campus are shown in the table on page 17. Some academic programs may have additional fees. Contact the department if you have questions.

Full-time students are charged a general service fee, a technology fee, and a repair and rehabilitation fee. The general service fee provides students with access to a variety of services and privileges such as access to the Recreational Sports Center and the Boilermaker Aquatic Center for recreational sports activities. It also allows deep-discount ticket prices for most Convocations-sponsored events and for Intercollegiate Athletics contests with presentation of a student ID card.

With payment of full fees, students have access to the Purdue Student Health Center that covers medical clinical office visits, nutrition consultations, health education services, and a limited number of sessions for psychological counseling. Additional fees are charged for lab, x-ray, urgent care, physical therapy, and other services.

Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability, or status as a disabled or Vietnam era veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in Executive Memorandum No. D-1 which provides specific contractual rights and remedies. Additionally, the University promotes the full realization of equal employment opportunity for women, minorities, persons with disabilities and Vietnam era veterans through its affirmative action program.

The technology fee is used to enhance student access to the campus networks, computer laboratories, and electronic access to information and databases. Technology fee funds are used to equip classrooms with computer and video projection equipment.

Beginning in the Fall 2006 Semester, students who enroll for a new degree-seeking program will be assessed a repair and rehabilitation fee. (The fee is retroactive for students who were enrolled as new degree-seeking students in Summer 2006.) This fee is assessed to address maintenance funding for buildings and infrastructure on campus, and funds received from the fee will be dedicated to building and infrastructural needs. The establishment of the fee is a result of growing unfunded needs to address critical building and infrastructural upkeep.

Miscellaneous personal expenses include such items as clothing, transportation, telephone, newspapers and magazines, dry cleaning and laundry, entertainment, etc.

Refunding of Fees and Tuition

Registered students who find it necessary to cancel their registration before the beginning of classes, upon the recommendation of the registrar, will receive a 100 percent refund of all fees and tuition.

Non-Title IV Aid

Students who withdraw during the first six weeks of a semester, with the recommendation of the registrar, will receive a partial refund of the general service fee and tuition. More specifically, the percentage of refund is determined as follows:

Fall or Spring Semester

1. Withdrawal during the first or second week, 80 percent refund
2. Withdrawal during the third or fourth week, 60 percent refund
3. Withdrawal during the fifth or sixth week, 40 percent refund

No portion of the technology, or repair and rehabilitation fees, or academic building facilities fee will be refunded once classes begin.

Title IV Aid

Once classes begin, refunds are prorated based on the date of withdrawal from class(es). Refunds are based on a diminishing scale through 60 percent of the semester. Refunds are calculated on all fees and tuition.

Summer Modules

Refunds for summer modules are proportionate on the same basis as semester refunds.

**2006–07 Estimated Costs West Lafayette Campus
(Fall and Spring Semesters)**

Items	Indiana Resident	Nonresident
Tuition/Fees	\$6,846*†	\$21,016*†
Room/Board	7,140	7,140
Books/Supplies	990	990
Travel	270	420
Miscellaneous	1,650	1,650
Total	\$16,896	\$31,216

* *First-time students enrolled at the West Lafayette campus beginning in the Fall 2002 Semester and thereafter pay these fees. Undergraduate, graduate, and professional students who were enrolled as degree-seeking students in the Spring 2002 Semester on the West Lafayette campus may be eligible for a lower fee. To maintain eligibility for a lower fee, students must be continuously enrolled (Fall and Spring semesters); eligible students will pay a lower fee until the date of attainment of one degree or until the Fall 2007 Semester, whichever comes first. Beginning in the Fall 2006 Semester, students who enroll for a new degree-seeking program will be assessed a campus repair and rehabilitation fee. That fee, as approved by the Board of Trustees, is also retroactive for students who enrolled as new degree-seeking students in Summer 2006.*

† *Your budget can vary, depending on your state of residence and the type of housing and academic program you select. Some programs have additional fees: Engineering, \$600; Management, \$936; Flight, individual courses in the program have additional fees that can be reviewed at www.purdue.edu/bursar or by contacting the Department of Aviation Technology. International students pay an additional \$50 per semester.*

Rates and refund schedules are subject to change without published notice.

Financial Aid

Purdue University recognizes that not all students and their parents can afford to finance a college education entirely from their income and assets. To ensure that all students have an opportunity to obtain a college education regardless of their financial circumstances, the University, through the Division of Financial Aid, administers a four-fold program of scholarships, grants, employment opportunities, and loans.

The Purdue University Division of Financial Aid administers federal, state, and University financial assistance programs. These programs require students to have a high school diploma or GED. Information regarding the GED is available through any public high school or any state department of education/public instruction.

Most types of aid are based upon financial need and satisfactory academic progress. To be considered for all types of financial aid, you must submit a Free Application for Federal Student Aid (FAFSA). This form should be submitted online at www.fafsa.ed.gov or can be obtained from the Division of Financial Aid; Schleman Hall of Student Services, Room 305; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050.

You should apply early for Purdue University financial aid. Eligible FAFSAs postmarked by March 1 will receive preference in the awarding of aid.

You are welcome to visit the campus to discuss not only family budgeting in order to meet college expenses, but also the types of available aid and the application procedure.

Walk-in counselors are available from 9:00 a.m. to 5:00 p.m. on Monday, Tuesday,

Wednesday, and Friday, and from 1:00 to 5:00 p.m. on Thursday. Phone counselors are available from 8:00 a.m. to 5:00 p.m. Monday through Friday at (765) 494-0998. Computer access to your aid status is available at www.ssinfo.purdue.edu.

Resident Assistants

University Residences has a plan whereby graduate and undergraduate students who are at least 21 years of age by the end of their first semester of employment with University Residences can be hired as a resident assistant (RA). An RA devotes approximately 20 hours each week to his or her duties in this capacity, with most of the time scheduled during evenings and weekends. Compensation for an RA position includes reduced tuition, room and board, and a small stipend. Applications and additional information for those interested in becoming a resident assistant can be found at www.housing.purdue.edu.

Freshman Scholar Program

Freshmen in the School of Health Sciences who distinguished themselves academically in high school may qualify for the Freshman Scholar Program. Recipients are given a merit scholarship and assigned both a professor and a student peer-mentor within their selected majors. This unique opportunity provides the student with an introduction to research. For details, write to the Office of Student Services or call (765) 494-8102.

Living Accommodations

University housing facilities and programs are available to all students based on Purdue's policy of equal opportunity regardless of national origin, race, or religion. It is the University's desire and expectation that all others providing housing or services to Purdue students will do so in a manner consistent with this policy. However, the University does not approve or disapprove specific housing accommodations since it believes that the choice of housing rests with you, the student.

As a Purdue student, you have a variety of choices when it comes to choosing your new home while attending school. You can live in one of 14 University Residences, a fraternity or sorority house, cooperative housing, or in a privately operated facility within the local community.

Apply for housing as soon as possible — whether or not you've made a final decision about enrolling at Purdue. University Residences begins accepting applications from admitted students in September for the following academic year.

Housing assignments generally are made in the order in which applications and \$75 housing deposits are received, after housing assignments are made for certain groups such as Learning Communities and National Merit Finalists. Therefore, you should apply for housing as soon as possible to improve your chance of assignment to a residence of your higher preference. You will have the opportunity to indicate your housing preferences and a specific roommate request at the time you receive your housing contract mailing.

Apply online at www.housing.purdue.edu to expedite your application. If you don't have Internet access, use the paper application included with the housing brochure in your initial admission packet. With your application, you will be required to submit a \$75 deposit. If you do decide to live on campus, this deposit will be credited to your first housing bill; if you do not, the deposit is refundable per the schedule below.

March 1 is the preferential housing application deadline. Because the University does not guarantee on-campus housing, it is important that students meet this deadline, although applying earlier is recommended. Students who apply for housing after the March 1 deadline will be assigned to a residence if space is available. First-year students are not required to live on campus.

Students who apply for housing by March 1 receive a housing contract mailing by April 1, which will be due to be returned by mid-April. When you receive your housing contract mailing, you will be prompted to fill out an online preference form, which will be used to assign your residence and match you with a compatible roommate. If you want to live with a friend, each of you must rank your residence preferences the same and request each other as a roommate.

New students who notify University Residences in writing of their choice to cancel their housing application will receive a refund of the housing deposit as follows:

Fall semester or summer session, cancellation received:

- Before May 1, \$75 refund
- Between May 1 and May 31, \$25 refund
- On or after June 1, no refund

Spring semester, cancellation received:

- Before December 1, \$25 refund
- On or after December 1, no refund

The Office of the Dean of Students offers assistance to students seeking off-campus housing. After being admitted, students should contact the Office of the Dean of Students as early as possible to begin their search for off-campus housing: visit www.purdue.edu/odos, e-mail offcampushousing@purdue.edu, or call (765) 494-7663.

University Residences for Undergraduate Men and Women

University Residences provides accommodations for approximately 11,100 single undergraduate men and women.

The all-male residences include Cary Quadrangle, providing accommodations for 1,166 students, and Tarkington and Wiley Halls, each providing space for about 700 students.

Six University Residences — Owen, McCutcheon, Harrison, Shreve, Earhart, and Hillenbrand halls — house approximately 800 students each, and Meredith Hall accommodates 620 students. These are coeducational units with male and female students assigned to separate areas of each building.

Duhme, Shealy, Wood, Warren, and Vawter halls comprise the all-women's residences and are referred to as Windsor Halls. Windsor Halls provide accommodations for 595 students.

All residences contain generous lounge space, recreation areas, kitchenettes, study spaces, and post office facilities.

As a student, you may choose from three plans consisting of 10, 15, or 20 meal swipes a week, as suits your lifestyle. University Residences offers students who have an academic classification of sophomore 3 and above the Black Meal Plan, consisting of a block of 210 meals, and the Gold Meal Plan, consisting of 300 meals. With these plans, you may use your meal swipes as often as you wish. All meal plans include Dining Dollars, which may be used to buy additional food items at University Residences' Dining Services retail operations, such as grills and mini-marts. You may eat at any University Residences' Dining Services facility by using your University ID card.

Computer labs are available in each University Residences hall. If you bring a personal computer, you may use the Residences' optional Ethernet connections or data-over-voice service to access the University computing network directly from your room.

Room and board rates in 2006–07 vary from \$5,528 to \$8,624, depending on your chosen meal plan option, residence, and room size.

Approximately 700 spaces in Hawkins Hall are reserved for assignment to older undergraduate students. Hawkins Hall residents are not required to purchase a meal plan. Accommodations in Hawkins Hall are on a room-only basis. The cost for a room in 2006–07 ranges from \$320 to \$585 a month depending on the type of room selected; that includes local telephone service with voicemail and call waiting.

More than 1,000 spaces for single undergraduate students are available in Hilltop Apartments. The apartments house two, three, or four students and are available for both single male and female students. All normal policies and regulations of University Residences apply to the apartments. Students living in the apartments may choose a meal plan that allows access to any University Residences Dining Services facility, or they may choose a non-board option. The room and board rate for 2006–07 in the apartments ranges from \$6,172 to \$9,466 a year.

(Rates quoted are subject to change as approved by the Board of Trustees and undoubtedly will be somewhat higher during the 2007–08 period of this publication.)

Visit www.housing.purdue.edu for additional information.

Accommodations for Married Students/Families

At Purdue Village, there are 1,000 University Residences-operated apartments located within a one-mile walking distance of the main campus. The apartments are unfurnished and equipped with a stove and refrigerator. There are one-bedroom and two-bedroom apartments, with the two-bedroom apartments having washers and dryers.

One-bedroom apartment costs range from \$520 to \$535 a month. Two-bedroom units range from \$640 to \$655 a month. Your rent payment covers all utilities, including local telephone service and Boiler TV (cable). These rates are effective during the 2006–07 academic year and are subject to change as approved by the Board of Trustees.

Each apartment is equipped with a connection for the campus cable TV system as well as for the campus computing network. The apartments are not air-conditioned, but tenants may

bring or purchase their own air-conditioning unit as long as it meets specified criteria, has compatible voltage ratings, and the apartment's maintenance staff does the installation.

For more information on Purdue Village, visit www.housing.purdue.edu, call (800) 440-2140, or fax (800) 440-2141.

Cooperatives

Cooperative houses also provide housing for students. These houses are large residences that are owned and operated by 20 to 50 students. Seven women's houses and five men's houses have been recognized officially by the Office of the Dean of Students, and each house has a live-out faculty or staff advisor.

Students in cooperative houses significantly decrease their housing costs by contributing three to four hours of house duties a week. Residents of cooperatives pay an average of \$3,000 per academic year for room and board. New members are selected by current members through a rush process each January.

To obtain information about becoming a cooperative member, contact the Office of the Dean of Students; Schleman Hall, Room 250; 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; or call (765) 494-1231. Students are expected to complete and return application information by February 1 or earlier for membership the following fall semester.

Additional information is available at www.purduecooperatives.com.

Fraternities and Sororities

Purdue has 46 fraternities and 24 sororities. Most members live in chapter houses, and membership is by invitation.

Sororities provide an opportunity in the fall for interested women students to join a chapter. Yearly costs for sororities range from \$3,300 to \$4,380. The average number of women living in a sorority is 88.

In the fall, the Interfraternity Council provides recruitment information through which interested men can become acquainted with the fraternity system. Open recruitment is conducted throughout the academic year. The average number of men belonging to a fraternity is 72, and costs range from \$2,000 to \$3,500 a semester.

For additional information, contact the Office of the Dean of Students; Purdue University; Schleman Hall, Room 250; 475 Stadium Mall

Drive; West Lafayette, IN 47907-2050; or call (765) 494-1232. Online information is available at www.purdue.edu/greek.

Student Services

Office of Student Services

The Office of Student Services consists of a professional staff that responds to the needs of undergraduate health sciences students during their stay at Purdue, as well as to the needs of prospective students interested in health-related careers.

The staff provides recruitment, counseling, and scheduling services for all students interested in the health sciences. The office is located in the Civil Engineering Building, Room 1163. The staff welcomes the opportunity to talk with you and your family when you visit the Purdue campus.

Recruitment. Staff members in the Office of Student Services respond to requests for information about programs of study in the health sciences. They participate in several campus-wide programs designed especially to assist you in finding out about various academic offerings at Purdue. Recruitment programs for the health sciences include Fall Preview Days, Introducing Purdue, Purdue Scholars Day, Destination Purdue, Purdue's for Me, Saturday with the Boilermakers, and Explore Purdue.

Academic Counseling. Academic counseling is an integral part of your education in the School of Health Sciences. Students and faculty in the school vary widely in their interests, training, and background. The faculty of the school permits flexibility in course selection to allow for differences in levels of education and academic goals of individual students.

You will be assigned an academic advisor who will help you select courses consistent with your academic preparation and suitable for your educational program. In addition, you will have an opportunity to consult with faculty members who can assist in the development of an individualized plan of study designed to meet your particular career interests.

Scheduling. Staff members in the Office of Student Services process course requests for students in the health sciences. Counselors and other staff members are available throughout the school year to assist you in the selection of courses.

The Office of Student Services is open weekdays from 8:00 a.m. to noon and from 1:00 to 4:30 p.m. For more information about programs of study and career opportunities in the health sciences, contact: Supervisor, Office of Student Services, School of Health Sciences, Purdue University, Civil Engineering Building, Room 1163, 550 Stadium Mall Drive, West Lafayette, IN 47907-20518, or phone (765) 494-8102.

Counseling

Each college or school has a general counseling office and academic advisors who can answer questions about degree requirements, registration, dropping and adding courses, and withdrawal from school.

Mature and qualified faculty and staff, graduate students, and older undergraduate students are employed on the University Residences counseling staffs and live in the halls to assist students with personal and scholastic problems.

The Office of the Dean of Students is staffed by professionally trained counselors who provide personal, educational, and career counseling. They can, for example, offer assistance or refer you to specialized help in such areas as vocational choice, campus activities, scholastic concerns, multicultural programs, assistance for students with disabilities, home and community relationships, and coping strategies.

Other campus services for students include the Counseling and Guidance Center, Counseling and Psychological Services, Financial Advising Service, International Students and Scholars, Learning Center, Marriage and Family Therapy Center, Steer Audiology and Speech-Language Center, Student Health Center, and Writing Lab.

Services for Students with Disabilities

Services for students with disabilities (physical, mental, and learning disabilities) are provided through the Adaptive Programs division of the Office of the Dean of Students. Services vary according to the needs of students. They include interpreters, readers, note-taking assistance, accessible class scheduling, parking permits, and help working with professors. For further information, contact the Office of the Dean of Students. The Web site is www.purdue.edu/odos/adpro. The general office number is (765) 494-1747, and the TDD number for people with hearing or speech impairments is (765) 494-1247.

Center for Career Opportunities

The staff of the Center for Career Opportunities (CCO) will assist you with your career decision-making and job search processes. Career counseling by appointment and resume reviews on a drop-in basis are available to students who visit the CCO at Stewart Center, Room 194, between 8:00 a.m. and 5:00 p.m. Monday through Friday. A wide variety of other career development and job search resources are found at www.cco.purdue.edu.

Purdue University students and graduates interested in having their resume referred to prospective employers and participating in interviews with employers for internships and post-graduate employment are encouraged to register with CCO Express at www.cco.purdue.edu/student/CCOExpress.shtml. Based on the number of employers recruiting at the Center for Career Opportunities, the interviewing program ranks among the three or four largest within university career centers in the United States each year.

For Further Information

General Information. The *General Information* bulletin will give you further details about admission, fees, expenses, financial aid, registration, living accommodations, student activities, student services, requirements for graduation, transfer students, ROTC, and other areas of student interest.

University Regulations. The *University Regulations* bulletin will provide details about academic, conduct, and student organi-

zation policies and procedures. You can access the Web site at www.purdue.edu/univregs, or request copies from Purdue Marketing Communications; South Campus Courts, Building D; 507 Harrison Street; West Lafayette, IN 47907-2025; (765) 494-2034.

Graduation Rates. Graduation rates for the West Lafayette campus are available by contacting the Office of Enrollment Management, Analysis, and Reporting; Schleman Hall, 475 Stadium Mall Drive; West Lafayette, IN 47907-2050; (765) 494-0292; enrollmentmanagement@purdue.edu. These rates are calculated and made available as required by the Student Right-to-Know and Campus Security Act.

Alcohol Policy. Purdue students are subject to Indiana law, which prohibits consumption or possession of alcoholic beverages by anyone under 21 years of age. The University does not permit alcohol to be brought onto Purdue property, with certain exceptions, by any person regardless of age. Fraternity and sorority houses and student cooperative housing units are considered off-campus housing and are permitted to have alcoholic beverages, but they must observe specific University guidelines and state law.

The University does not have the responsibility or the authority to control off-campus student drinking, but it does attempt to give students the opportunity to make informed and mature decisions about alcohol use. A variety of educational and counseling programs are offered to help students deal with all aspects of alcohol and drug use, from peer pressure to dependency.

Safety. The University strives to provide a safe and secure environment for students, staff, and visitors. The University distributes an Annual Security Report containing campus crime statistics and information relating to campus safety and security policies and programs. The report is available on the Web at www.purdue.edu/police. A paper copy may be requested by calling (765) 494-8221 or contacting the Purdue University Police Department, Terry House, 205 S. Intramural Drive, Purdue University, West Lafayette, IN 47907-1971.

Intellectual Property. All students are subject to the University policy on intellectual property, Executive Memorandum B-10, which can be found at www.purdue.edu/policies/pages/teach_res_outreach/b_10.html.

Information Technology

Information Technology at Purdue, which is known by the acronym “ITaP” (pronounced EYE-tap), is responsible for centralized computing and telecommunications services for faculty, staff, and students on the West Lafayette campus.

Computing services range from the very visible computing laboratories located in more than 60 locations throughout campus, to the unseen but essential enterprise applications that facilitate the business of the University. The ITaP staff members install, maintain, operate, and repair computer equipment, and provide services including career accounts, e-mail, calendaring, directories, and database administration.

In addition to the instructional computer laboratories, services for students include:

1. The WebCT course management system.
2. The Purdue Mobile Learning Initiative, which enables students to purchase laptop computers with on-campus technical support and repair.
3. The Digital Learning Collaboratory, a center for creating multimedia content including digital portfolios, Web pages, and digital video. The center is operated jointly with the Purdue University Libraries.
4. The Adaptive Programs lab for those with special needs.
5. Web-based access to many software applications, Software Remote. (In 2006, *EdTech: Focus on Higher Education* magazine gave Software Remote an IT innovation award.)
6. Free anti-virus software and computer security resources through SecurePurdue.
7. Significant discounts on commonly used software programs, such as Microsoft Office and Macromedia Studio.

Purdue is one of the few universities to offer high-performance computing capability to undergraduates, too. A Linux-based computer cluster in the Digital Learning Collaboratory is available for students to perform animation rendering, modeling, and other computational intensive assignments.

Also supporting research at Purdue is the Envision Center for Data Perceptualization, which is one of the largest scientific visualization facilities found at any university. The Envision Center utilizes a blend of computer science, engineering, perception, technology, and art to process and display information through the use of computer graphics. Students can use the facility to take visualization-related courses or to take collaborative courses with students from other universities.

Telecommunications services provided by ITaP range from basic phone services for campus offices and residences to wireless connectivity in areas throughout the campus. ITaP supports the infrastructure that links campus buildings by optical fiber and provides commodity Internet to residences and offices. ITaP also manages Purdue’s participation in several research networks, including the Internet 2, the TeraGrid, and the Northwest Indiana Computational Grid.

To help University personnel stay up to date on the rapidly changing information technology field, courses and one-on-one consulting are available on every aspect of computing and telecommunications.

For additional information, please consult www.itap.purdue.edu or call (765) 494-4000. The address for the ITaP Customer Service Center is Stewart Center, Room G068; 128 Memorial Mall; West Lafayette, IN 47907-2034.

Libraries

The collections and services of the Purdue University Libraries are an important resource for your educational experience.

The University Libraries system on the West Lafayette campus includes 13 subject-oriented libraries and the Hicks Undergraduate Library. The Libraries provide a print collection of nearly 2,500,000 volumes and more than 3,100,000 microforms of older scholarly materials in addition to many current scientific and technical reports. Approximately 21,000 serial titles are received, including periodicals and serial publications of societies, institutions, and the federal and state governments. Federal government publications and patents are received on a depository basis. The Libraries also offer more than 7,000 electronic information sources. The Libraries Web site at www.lib.purdue.edu is the gateway to information and services.

Local library resources are supplemented by the four million items of research materials held by the Center for Research Libraries in Chicago, including 7,000 rarely held serial titles. Through Purdue's membership in the center, faculty and graduate students are assured of fast access to this material through the Interlibrary Loan Office in the Humanities, Social Science, and Education (HSSE) Library in Stewart Center.

The library collections and services of the Big Ten libraries, the University of Chicago,

Ball State University, and Indiana State University also are available to Purdue students and faculty under cooperative agreements. Individuals who wish to use these facilities are encouraged to contact Circulation Services in the HSSE Library.

The Digital Learning Collaboratory (DLC) is located in the Undergraduate Library. It is a joint initiative of the Purdue Libraries and Information Technology at Purdue. The DLC supports student learning through access to state-of-the-art hardware and software for creating multimedia projects in individual, group work, and instructional settings. It facilitates the integration of information and technology literacy into the undergraduate curriculum.

For students in health sciences, the Pharmacy, Nursing, and Health Sciences Library will provide most of the materials needed for study and research, including access to specialized electronic resources. Located in the Heine Pharmacy Building, this library's book collection consists of about 31,000 volumes. The library subscribes to more than 400 journals. Older volumes are held in the University Libraries' on-campus repository. Numerous electronic resources also support study and research in these fields. Reference and instruction services are available to assist users in retrieving information.

Study Abroad

The Office of Programs for Study Abroad is dedicated to internationalizing Purdue by helping as many students as possible have overseas experiences that enrich lives, enhance academic experiences, and increase career potential. The office helps students overcome academic, financial, or personal concerns that might prevent them from going abroad, and is especially devoted to removing obstacles for first-time travelers.

Purdue offers more than 200 study abroad and internship programs in dozens of countries, lasting from a week to a year, for all majors. Most programs do not require foreign language skills. Program costs vary, but many are comparable to the cost of studying at Purdue (with the exception of the travel expense). Participants

earn Purdue grades and credits, so those who study abroad can graduate in the normal length of time. Most of the financial aid that covers Purdue expenses can also be applied to study abroad, and more financial aid specifically for study abroad has been available in recent years.

Students who have taken part in study abroad often describe their experiences as "life changing," "eye opening," and "the best choice I ever made."

Students should begin their international exploration either online at www.studyabroad.purdue.edu, by calling (765) 494-2383, or by contacting The Office of Programs for Study Abroad; Young Hall, Room 105; 302 Wood Street; West Lafayette, IN 47907-2108.

Graduation Requirements

Academic Standards Policies and Scholastic Index Requirements

The scholastic standing and probation standards of all regular students enrolled in health sciences programs are the same as those for the University as a whole. They are spelled out in the *General Information* bulletin in the section on registration. In addition to the University requirements, students enrolled in the School of Health Sciences must maintain a minimum cumulative grade point average (GPA) of 2.0 in the areas of science. Students majoring in radiological health, occupational health, and environmental health science must receive a grade of “C” or higher in selected courses in order to graduate with the major.

Students enrolled in the professional program in medical technology also have specific scholastic requirements as indicated in the following table. In accordance with the admission requirements of the clinical affiliated programs, students should attain a minimum cumulative GPA of 2.5 through semester 6 as well as a 2.5 science GPA. In addition, matriculation to the clinical component requires completion of a minimum of 96 credits prior to the clinical phase.

GPA Levels for Dropping from Medical Technology Program

Semester Classification	Cumulative GPA*
1	2.2
2	2.3
3	2.4
4	2.5
5	2.5
6	2.5
7 and up	†

Pass/Not-Pass Option

This option is available to encourage students to broaden their educational horizons. Students may pursue certain elective (excluding technical) courses on this basis if they have a class standing of sophomore three or higher and a graduation index of 2.0 or greater at the end of the preceding semester.

Degrees Offered

The School of Health Sciences offers the Bachelor of Science (B.S.) degree. All programs leading to this degree have the following requirements in common:

1. Satisfaction of various University-wide graduation requirements: academic, scholastic, residence, fee payments, etc., as described in the Purdue University General Information bulletin.
2. Completion of an appropriate plan of study meeting the requirements indicated in Table
3. Specific courses used to satisfy these requirements depend on your area of study and career objectives. Specific courses for major areas within the school are listed in the appropriate plan of study. Certain majors may have requirements that exceed the minimum requirements shown in the table on page 26.
4. **Minors.** The School of Health Sciences, in conjunction with other departments, offers minors in more than 30 areas. Additional minors will be added in the future. For more information about minors offered throughout the University, consult the counseling staff in the Office of Student Services.

* No cumulative GPA below 2.00 in science courses at the 200-level and above will be accepted regardless of the overall index.

† Students in the final year of the medical technology program must meet the University graduation index requirement of 2.00 as set forth in the General Information bulletin.

- 5. Double Majors.** The School of Health Sciences offers a double major in radiological health science and occupational health science. To graduate with this double major, the student must satisfy the graduation requirements for both of these majors. In addition, the student must have a minimum cumulative grade point average of 2.75 at the time of graduation.
- 6. Honors Curricula.** The School of Health Sciences offers an honors track in both the radiological health science and occupational health science majors for students who intend to pursue graduate study in those fields.
- 7. Pre-medicine Curriculum.** The School of Health Sciences majors are flexible enough to allow pre-medicine curricular requirements to be met within them. Formal pre-medicine concentrations are available in the radiological health science and occupational health science majors in addition to the general health sciences major.

Minimum Degree Requirements

Core Requirements*	Credit Hours
English Composition and Speech	9
Chemistry†	18
Mathematics‡ and Statistics	9
Biology	14
Physics	8
Liberal arts	9
Core total	67
Major requirements†	43–47
Electives	17–21

Minimum total credits required for graduation is 128, which must include at least 32 credits at or above the 300-level. Certain majors may have requirements that exceed these minimums.

Abbreviations

The following abbreviations of subject fields and curricula are used in the “Plans of Study” section of this catalog. Alphabetization is according to abbreviation.

AGRY—Agronomy
BCHM—Biochemistry
BIOL—Biological Sciences
C E—Civil Engineering
CHM—Chemistry
COM—Communication
C S—Computer Sciences
ECON—Economics
ENGL—English
ENTM—Entomology
HK—Health and Kinesiology

HSCI—Health Sciences
I E—Industrial Engineering
MA—Mathematics
MCMP—Medicinal Chemistry and Molecular Pharmacology
NRES—Natural Resources and Environmental Science
NUCL—Nuclear Engineering
OLS—Organizational Leadership and Supervision
PHYS—Physics
POL—Political Science
SOC—Sociology
STAT—Statistics

* A higher-level course may be substituted for any core course in the plans of study shown elsewhere in this catalog. For transfer students, a transferred course may not be substituted unless that course is evaluated to be equivalent by the Office of Admissions transfer credit evaluation.

† CHM 100 is not available for credit toward graduation. MA 151, or 153 and 154 are available for credit toward graduation.

‡ The general health sciences major includes humanities and general electives.

Major Areas of Study

The School of Health Sciences curricula and graduation requirements as presented in this catalog are those that were in effect in August 2006. Course content and curricula will evolve to meet the changing needs of the professions.

Some flexibility in academic curricula is provided in order to make allowances for individual differences in students' backgrounds and academic goals. It is the student's responsibility to consult with his or her academic advisor about using this flexibility to design a program to fit his or her particular needs.

The traditional length of a college degree program is four academic years. For this reason, this catalog presents all curricula as four-year programs. Well-qualified students with excellent high school preparation can complete the

program in the four-year period — or even less time. However, the University recognizes that other students may require four and one-half or five years to complete all requirements. For example, a student may be deficient in basic math or science courses, or a student may have transferred or changed majors.

An insufficient high school background usually is most noticeable during the first and second year of a student's program in health sciences. Students who lack strong math and science backgrounds but who meet admission requirements will take courses during their first and second semesters of study to strengthen their knowledge in these areas and to prepare for coursework in the health sciences.

Environmental Health Sciences

The Demand

During the past three decades, public concern about the quality of the environment has increased. This concern has resulted in several major environmental policy decisions, including the creation of the Environmental Protection Agency (EPA) and passage of legislation including the National Environmental Policy Act (NEPA), the Toxic Substances Control Act (TSCA), the Safe Drinking Water Act, the Clean Air Act, the Federal Environmental Pesticide Control Act, and the Resource Conservation Recovery Act (RCRA). The development of such agencies and policies has created a demand for professionals trained to evaluate environmental problems and provide feasible solutions.

The Purpose

The purpose of the environmental health sciences program is to develop individuals who have the education and training required to deal

with the complex environmental problems and issues of today and tomorrow.

The Curriculum

The curriculum is designed to provide a sound scientific base while allowing flexibility in the choice of advanced courses. Through selection of electives during the junior and senior years, students can develop programs that emphasize one of several areas of environmental health, with coursework in toxicology, environmental assessment, ecology, or environmental engineering. The four-year environmental health science curriculum may qualify the graduate for employment by governmental agencies and industries. However, additional coursework and specialization, through the M.S. degree, is recommended for capable students.

All students working toward the B.S. degree must complete the degree requirements of 130 credit hours presented in the environmental health science plan of study.

Plan of Study: Environmental Health Sciences*

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (3) **CHM 111** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Science Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (16)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (3) **CHM 112** (General Chemistry II)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
-
- (16)

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology I)
 - (4) **CHM 257** (Organic Chemistry)
 - (1) **CHM 257L** (Organic Chemistry Laboratory)
 - (4) **PHYS 220** (General Physics)
 - (3) **POL 223** (Introduction to Environmental Policy)
-
- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology II)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics II)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
 - OLS 274** (Applied Leadership)
-
- (18)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
 - (3) **STAT 301** (Elementary Statistical Methods)
 - (3) Humanities elective
-
- (15)

Sixth Semester

- (4) **BIOL 221** (Introduction to Microbiology)
 - (1) **MCMP 401** (The Nature of Cancer)
 - (3) **NRES 290** (Introduction to Environmental Science)
 - (3) English elective
 - (6) Electives
-
- (17)

Senior Year

Seventh Semester

- (3) **C E 350** (Environmental Engineering)
 - (3) **HSCI 560** (Toxicology)
 - (3) Humanities elective
 - (7) Electives
-
- (16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) Humanities elective
 - (10) Electives
-
- (16)

* A grade of "C" or higher must be earned in HSCI 312 and 345 for graduation with a major in environmental health sciences.

Radiological Health Science (Health Physics, Medical Physics)

About Radiological Health Science

Radiological health science is the field of study concerned with science and engineering practices that form the basis for the efficacious and safe use of radiation in industry, research, and medicine. The B.S. degree with a major in radiological health prepares the student for entry-level positions in industry, medical centers, government, and education. The pre-medicine track is recommended for students who plan to apply to medical school. The honors track is recommended for students who intend to pursue M.S. or Ph.D. studies in medical physics, health physics, or other radiation sciences.

Some students may find that their career goals can be best met with a double major in radiological health science and occupational health science. To graduate with this double major, the student must satisfy the graduation requirements for both of these majors. In addition, the student must attain a minimum cumulative grade point average of 2.75 at the time of graduation.

All students working toward the bachelor's degree must complete the degree requirements of a minimum of 128 credit hours indicated on page 26 and presented in one the following plans of study.

Plans of Study

- Radiological health sciences
- Radiological health — honors track
- Radiological health/pre-medicine concentration
- Radiological and occupational health sciences double major

Honors Curriculum and “4+1” Master’s Degree Programs

Students taking the honors curriculum are eligible to participate in the “4+1” master’s degree programs in:

- Health physics
- Medical physics
- Radiobiology
- Nuclear Engineering and Radiological Health Sciences (combined program)

Students interested in the honors curriculum should discuss this with their counselor prior to registering for the freshman year fall semester since higher-level science and math courses are included in this curriculum. Students interested in the “4+1” master’s degree programs can find additional information about the graduate requirements of these programs on the school’s Web site: <http://healthsciences.purdue.edu>.

Plan of Study: Radiological Health Science*

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
- (3) **CHM 111** (General Chemistry)
- (4) **ENGL 106** (First-Year Composition)
- (2) **HSCI 101** (Introduction to the Health Science Professions)
- (5) **MA 161** (Plane Analytic Geometry and Calculus I) **or**
- (4) **MA 165** (Analytic Geometry and Calculus I)

(17–18)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
- (3) **CHM 112** (General Chemistry)
- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **C S 159A** (Programming Applications for Engineers)
- (5) **MA 162** (Plane Analytic Geometry and Calculus II) **or**
- (4) **MA 166** (Analytic Geometry and Calculus II)

(17–18)

* A grade of “C” or higher is required in HSCI 312, 313, 322L, 345, 514, 526, 534, and 540 for graduation with a major in radiological health science.

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology)
 - (4) **CHM 257** (Organic Chemistry)
 - (1) **CHM 257L** (Organic Chemistry Laboratory)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
OLS 274 (Applied Leadership)
 - (4) **PHYS 220** (General Physics)
-
- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics)
 - (3) **POL 223** (Introduction to Environmental Policy)
 - (3) Humanities elective
-
- (17)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
 - (3) **STAT 301** (Elementary Statistical Methods)
 - (3) Humanities elective
-
- (15)

Sixth Semester

- (2) **HSCI 313** (Principles of Radiation Detection and Measurement)
 - (1) **HSCI 514** (Radiation Instrumentation Laboratory)
 - (3) **HSCI 526** (Principles of Health Physics and Dosimetry)
 - (3) **HSCI 540** (Radiation Biology)
 - (3) **NUCL 200** (Introduction to Nuclear Engineering)
 - (3) English elective
-
- (15)

Senior Year

Seventh Semester

- (1) **HSCI 322L** (Radiation Dosimetry Laboratory)
 - (1) **HSCI 485** (Health Physics Internship)* **or**
Elective
 - (3) **HSCI 534** (Applied Health Physics)
 - (2) **HSCI 574** (Medical Health Physics)
 - (9) Electives
-
- (16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) Humanities elective
 - (9) Electives
-
- (15)

* An internship is strongly recommended, but it is not required. HSCI 485 can be taken as an elective if the student has or will have an acceptable work experience.

Plan of Study: Radiological Health Science/Honors*

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (4) **CHM 115** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (5) **MA 161** (Plane Analytic Geometry and Calculus I) **or**
 - (4) **MA 165** (Analytic Geometry and Calculus I)
-

(17–18)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (4) **CHM 116** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (5) **MA 162** (Plane Analytic Geometry and Calculus II) **or**
 - (4) **MA 166** (Analytic Geometry And Calculus II)
-

(16–17)

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology)
 - (3) **CHM 255** (Organic Chemistry)
 - (1) **CHM 255L** (Organic Chemistry Laboratory)
 - (4) **MA 261** (Multivariate Calculus)
 - (4) **PHYS 152** (Mechanics)
-

(16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
 - (3) **CHM 256** (Organic Chemistry)
 - (1) **CHM 256L** (Organic Chemistry Laboratory)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **MA 262** (Linear Algebra and Differential Equations)
 - (3) **PHYS 241** (Electricity and Optics)
-

(18)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **C S 159A** (Programming Applications For Engineers)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
 - (3) **NUCL 200** (Introduction to Nuclear Engineering)
-

(15)

Sixth Semester

- (2) **HSCI 313** (Principles of Radiation Detection and Measurement)
 - (1) **HSCI 514** (Radiation Instrumentation Laboratory)
 - (3) **HSCI 526** (Principles of Health Physics and Dosimetry)
 - (3) **HSCI 540** (Radiation Biology)
 - (3) **PHYS 342** (Modern Physics)
 - (1) **PHYS 342L** (Modern Physics Laboratory)
 - (3) **STAT 301** (Elementary Statistical Methods)
-

(16)

Senior Year

Seventh Semester

- (1) **HSCI 322L** (Radiation Dosimetry Laboratory)
 - (3) **HSCI 534** (Applied Health Physics)
 - (3) **HSCI 570** (Introduction to Medical Diagnostic Imaging)
 - (2) **HSCI 574** (Medical Health Physics)
 - (3) Humanities elective
 - (3) Elective
-

(15)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) **HSCI 572** (Radiation Oncology Physics)
 - (3) English elective
 - (6) Humanities electives
-

(15)

* A grade of "C" or higher must be earned in HSCI 312, 313, 322L, 345, 514, 534, and 540 for graduation with a major in radiological health science/honors.

Plan of Study: Radiological Health Science/Pre-Medicine Concentration*

Freshman Year

First Semester

- (2) **BIOL 121** (Biology I: Diversity, Ecology, and Behavior)
 - (.5) **BIOL 137A/B** (Handling Cells and Tissues, Microscopy)
 - (.5) **BIOL 139A/B** (Measurement and Basic Solution Chemistry)
 - (4) **CHM 115** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (16)

Second Semester

- (3) **BIOL 131** (Biology II: Development, Structure, and Function of Organisms)
 - (.5) **BIOL 136A/B** (Quantitative and Problem-Solving Skills)
 - (.5) **BIOL 138A/B** (Information and Communication Skills)
 - (4) **CHM 116** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
-
- (17)

Sophomore Year

Third Semester

- (3) **BIOL 231** (Biology III: Cell Structure and Function)
 - (2) **BIOL 232** (Laboratory in Biology III: Cell Structure and Function)
 - (3) **CHM 255** (Organic Chemistry)
 - (1) **CHM 255L** (Organic Chemistry Laboratory)
 - (4) **PHYS 220** (General Physics)
 - (3) Humanities elective
-
- (16)

Fourth Semester

- (3) **BIOL 241** (Biology IV: Genetics and Molecular Biology)
 - (3) **CHM 256** (Organic Chemistry)
 - (1) **CHM 256L** (Organic Chemistry Laboratory)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics)
 - (3) **STAT 301** (Elementary Statistical Methods)
-
- (17)

Junior Year

Fifth Semester

- (4) **BIOL 221** (Introduction to Microbiology)
 - (3) **BIOL 301** (Human Design: Anatomy and Physiology)
 - (3) **CHM 333** (Principles of Biochemistry)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupation and Environmental Health Sciences)
-
- (16)

Sixth Semester

- (3) **BIOL 302** (Human Design: Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (2) **HSCI 313** (Principles of Radiation Detection and Measurement)
 - (1) **HSCI 514** (Radiation Instrumentation Laboratory)
 - (3) **HSCI 526** (Principles of Health Physics and Dosimetry)
 - (3) **HSCI 540** (Radiation Biology)
-
- (16)

* A grade of "C" or higher must be earned in HSCI 312, 313, 322L, 345, 514, and 540 for graduation with a major in radiological health science/pre-medicine.

Senior Year

Seventh Semester

- (1) **HSCI 322L** (Radiation Dosimetry Lab)
 - (3) **HSCI 570** (Introduction to Medical Diagnostic Imaging)
 - (2) **HSCI 574** (Medical Health Physics)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) Humanities elective
 - (3) Elective
-
- (15)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (1) **HSCI 131** (Medical Terminology)
 - (3) **HSCI 572** (Radiation Oncology Physics)
 - (3) English elective
 - (3) Humanities elective
 - (2) Elective
-
- (15)

Plan of Study: Radiological and Occupational Health Sciences*

Freshman Year***First Semester***

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (3) **CHM 111** (General Chemistry)
 - (2) **HSCI 101** (Introduction to the Health Science Professions)
 - (5) **MA 161** (Plane Analytic Geometry and Calculus I) **or**
 - (4) **MA 165** (Analytic Geometry and Calculus I)
 - (3) Humanities elective
-
- (16–17)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (3) **CHM 112** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (5) **MA 162** (Plane Analytic Geometry and Calculus II) **or**
 - (4) **MA 166** (Analytic Geometry and Calculus II)
-
- (15–16)

Sophomore Year***Third Semester***

- (4) **BIOL 203** (Human Anatomy and Physiology)
 - (4) **CHM 257** (Organic Chemistry)
 - (1) **CHM 257L** (Organic Chemistry Laboratory)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (4) **PHYS 220** (General Physics)
-
- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (3) **OLS 331** (Occupational Safety and Health)
 - (4) **PHYS 221** (General Physics II)
-
- (18)

* A grade of "C" or higher is required in HSCI 312, 313, 322L, 345, 346, 348, 446, 514, 534, 540, 580 for graduation with a double major in radiological and occupational health sciences.

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
- (3) **HSCI 312** (Radiation Science Fundamentals)
- (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
- (3) **NUCL 200** (Introduction to Nuclear Engineering)
- (3) **POL 223** (Introduction to Environmental Policy)
- (3) **STAT 301** (Elementary Statistical Methods)

(18)

Sixth Semester

- (2) **HSCI 313** (Principles of Radiation Detection and Measurement)
- (4) **HSCI 346** (Industrial Hygiene Engineering Control)
- (3) **HSCI 348** (Industrial Hygiene Instrumentation Techniques)
- (1) **HSCI 514** (Radiation Instrumentation Laboratory)
- (3) **HSCI 526** (Principles of Health Physics and Dosimetry)
- (3) **HSCI 540** (Radiation Biology)

(16)

Senior Year*

Seventh Semester

- (1) **HSCI 322L** (Radiation Dosimetry Laboratory)
- (1) **HSCI 485** (Health Physics Internship)† **or**
 - (2) **HSCI 445** (Industrial Hygiene Internship)† **or**
- (3) **HSCI 446** (Applied Industrial Hygiene)
- (3) **HSCI 534** (Applied Health Physics)
- (3) **HSCI 560** (Toxicology)
- (3) **HSCI 580** (Occupational Ergonomics)
- (3) **OLS 252** (Human Relations in Organizations)

(17–18)

Eighth Semester

- (3) **CE 350** (Environmental Engineering)
- (3) **HK 445** (Principles of Epidemiology)
- (3) English elective
- (9) Humanities electives

(18)

* *HSCI 574 is recommended if there is room in the student's schedule.*

† *An internship is strongly recommended but is not required; HSCI 445 or 485 can be taken as an elective if the student has had a previous acceptable occupational health or radiological health (respectively) work experience.*

Occupational Health Science (Industrial Hygiene)

About Occupational Health Science

Occupational health science is the broad term that describes the profession of industrial hygiene. Industrial hygiene is the science and art of identifying, evaluating, and controlling workplace hazards. Such hazards may be due to human exposure to chemical, physical, and biological agents as well as to faulty work practices related to ergonomic issues. Millions of injuries and thousands of deaths every year are related to these hazards in the workplace. In fact, it is estimated that more people in the United States alone die due to their jobs each year than the number of U.S. soldiers killed in the entire Vietnam War.

In addition to safeguarding the workplace, industrial hygienists apply their skills to community issues such as hazardous waste, indoor air quality, and air and noise pollution. In the past three decades, activity and employment in the field of industrial hygiene have greatly expanded due to the passage of landmark federal legislation such as the Occupational Safety and Health Act (OSHA), the Toxic Substances Control Act (TSCA), and the Superfund Amendment and Reauthorization Act (SARA), along with an increasing public awareness of the need for a clean and safe environment, both in the workplace and in the surrounding community.

Purdue's industrial hygiene programs (undergraduate and M.S. level) have been accredited by the Accreditation Board for Engineering and Technology (ABET). In fact, Purdue's B.S. program was the first undergraduate industrial hygiene program in the United States to be accredited, and Purdue is still the only university in the country to have both an undergraduate and a graduate accredited program in industrial hygiene.

What Do Occupational Health Science/Industrial Hygiene Graduates Do?

The B.S. degree with a major in occupational health prepares the student for entry-level positions in industry, medical centers, government,

consulting, and academia. Currently, more than 12,000 industrial hygienists nationwide work toward promoting health in the work and community environments. To investigate health hazards, industrial hygienists combine technical skills with "people" skills – basically, they are "disease detectives of the workplace." As the number of potentially hazardous chemicals and work situations increase and the world's global economy continues to expand, more people will be needed in this exciting and rewarding profession. Industrial hygienists are truly "technology enablers." Without their expertise, most products could not be made safely or economically. Industrial hygienists typically advance in their careers by taking on more responsibilities such as environmental issues, safety issues, wellness and health insurance, workers' compensation, homeland security issues, and quality control/quality assurance.

How Do Purdue Graduates Attain Professional Competency?

Although the basic four-year degree qualifies the graduate for many entry-level positions, additional coursework at least through the M.S. degree is highly recommended to reach full professional status.

Although not required, an optional summer industrial hygiene internship is highly recommended as a way for the student to learn firsthand from practical, real-world experience. Faculty and staff provide assistance and direction to the student in arranging an internship, and an elective internship course can be taken the semester following such an experience.

Professional competence in the field is acknowledged with certification by the American Board of Industrial Hygiene. The title "certified industrial hygienist" requires passing a rigorous written examination and five years of work experience that can include credit for education at an ABET-accredited university (one-half year for a B.S., one year for an M.S., and two years for a Ph.D.).

Plans of Study

- Occupational health science
- Occupational health science — honors track
- Occupational health science/pre-medicine concentration
- Radiological and occupational health sciences double major

The pre-medicine track is recommended for students who plan to apply to medical school. The honors track is recommended for students who intend to pursue M.S. or Ph.D. studies in occupational health science or a related field.

Some students may find that their career goals can be best met with a double major in radiological health science and occupational health science. To graduate with this double major, the student must satisfy the graduation requirements for both of these majors. In addition, the student must attain a minimum cumulative grade point average of 2.75 at the time of graduation.

All students working toward the bachelor's degree must complete the degree requirements of a minimum of 128 credit hours indicated on page 26 and presented in one of the following plans of study.

Honors Curriculum and "4+1" Master's Degree Programs

Students taking the honors curriculum are eligible to participate in the "4+1" master's degree programs in:

- Industrial hygiene
- Ergonomics
- Environmental health

Students interested in the honors curriculum should discuss this with their counselor prior to registering for the freshman year fall semester, since higher-level science and math courses are included in this curriculum. Students interested in the "4+1" master's degree programs can find additional information about the graduate requirements of these programs on the Web at <http://healthsciences.purdue.edu>.

Plan of Study: Occupational Health Science (Industrial Hygiene)***Freshman Year****First Semester**

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (3) **CHM 111** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Science Professions)
 - (3) **MA 223** (Introductory Analysis I)
- (16)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (3) **CHM 112** (General Chemistry II)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
- (16)

Sophomore Year**Third Semester**

- (4) **BIOL 203** (Human Anatomy and Physiology)
 - (4) **CHM 257** (Organic Chemistry)
 - (1) **CHM 257L** (Organic Chemistry Laboratory)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
 - OLS 274** (Applied Leadership)
 - (4) **PHYS 220** (General Physics)
- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (3) **OLS 331** (Occupational Safety and Health)
 - (4) **PHYS 221** (General Physics)
- (18)

* A student must earn a grade of "C" in HSCI 312, 345, 346, 348, 446, and 580 for graduation with a major in occupational health science.

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
 - (3) **POL 223** (Introduction to Environmental Policy)
 - (3) **STAT 301** (Elementary Statistical Methods)
-
- (15)

Sixth Semester

- (4) **HSCI 346** (Industrial Hygiene Engineering Control)
 - (3) **HSCI 348** (Industrial Hygiene Instrumentation Techniques)
 - (3) English elective
 - (6) Electives
-
- (16)

Senior Year

Seventh Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (2) **HSCI 445** (Industrial Hygiene Internship)* **or** Elective
 - (3) **HSCI 446** (Applied Industrial Hygiene)
 - (3) **HSCI 560** (Toxicology)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) Humanities elective
-
- (17)

Eighth Semester

- (3) **C E 350** (Environmental Engineering)
 - (6) Humanities electives
 - (7) Electives
-
- (16)

Plan of Study: Occupational Health Science/Honors†

Freshman Year***First Semester***

- (2) **BIOL 121** (Biology I: Diversity, Ecology, and Behavior)
 - (.5) **BIOL 137A/B** (Handling Cells and Tissues, Microscopy)
 - (.5) **BIOL 139A/B** (Measurement and Basic Solution Chemistry)
 - (4) **CHM 115** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (16)

Second Semester

- (3) **BIOL 131** (Biology II: Development, Structure, and Function of Organisms)
 - (.5) **BIOL 136A/B** (Quantitative and Problem-Solving Skills)
 - (.5) **BIOL 138A/B** (Information and Communication Skills)
 - (4) **CHM 116** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
-
- (17)

* An internship is strongly recommended but is not required; HSCI 445 can be taken as an elective if the student has had a previous acceptable occupational health science work experience.

† A student must earn a grade of "C" or higher in HSCI 312, 345, 346, 348, 446, and 580 for graduation with the major in occupational health science.

Sophomore Year

Third Semester

- (3) **BIOL 301** (Biology III: Cell Structure and Function)
 - (3) **CHM 255** (Organic Chemistry)
 - (1) **CHM 255L** (Organic Chemistry Laboratory)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
OLS 274 (Applied Leadership)
 - (4) **PHYS 220** (General Physics)
 - (3) **POL 223** (Introduction to Environmental Policy)
-
- (17)

Fourth Semester

- (3) **BIOL 302** (Human Design: Anatomy and Physiology)
 - (3) **CHM 256** (Organic Chemistry)
 - (1) **CHM 256L** (Organic Chemistry Laboratory)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics)
 - (3) Humanities elective
-
- (17)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupation and Environmental Health Sciences)
 - (3) **STAT 503** (Statistical Methods for Biology)
 - (3) English elective
-
- (15)

Sixth Semester

- (4) **CHM 224** (Introductory Quantitative Analysis)
 - (3) **HK 445** (Principles of Epidemiology)
 - (4) **HSCI 346** (Industrial Hygiene Engineering Control)
 - (3) **HSCI 348** (Industrial Hygiene Instrumentation Techniques)
 - (3) Humanities elective
-
- (17)

Senior Year

Seventh Semester

- (2) **HSCI 445** (Industrial Hygiene Internship)* **or**
Elective
 - (3) **HSCI 446** (Applied Industrial Hygiene)
 - (3) **HSCI 560** (Toxicology)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (2) **HSCI 590** (Senior Thesis)
 - (3) Humanities elective
-
- (16)

Eighth Semester

- (3) **C E 350** (Environmental Engineering)
 - (3) **HSCI 551** (Health Effects of Nonionizing Radiation)† **or**
HSCI 552 (Introduction to Aerosol Science)†
 - (3) **HSCI 590** (Senior Thesis)
 - (3) **I E 558** (Safety Engineering)
 - (4) Electives
-
- (16)

* An internship is strongly recommended but is not required; HSCI 445 can be taken as an elective if the student has had a previous acceptable occupational health science work experience.

† The four-year curriculum contains 131 credits so that three credits of HSCI 551 or 552 can be carried over to the M.S. program; if the "4+1" program is not elected, HSCI 551 and 552 are not required.

Plan of Study: Occupational Health Science/Pre-Medicine Concentration*

Freshman Year

First Semester

- (2) **BIOL 121** (Biology I: Diversity, Ecology, and Behavior)
 - (.5) **BIOL 137A/B** (Handling Cells and Tissues, Microscopy)
 - (.5) **BIOL 139A/B** (Measurement and Basic Solution Chemistry)
 - (4) **CHM 115** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (16)

Second Semester

- (3) **BIOL 131** (Biology II: Development, Structure, and Function of Organisms)
 - (.5) **BIOL 136A/B** (Quantitative and Problem-Solving Skills)
 - (.5) **BIOL 138A/B** (Information and Communication Skills)
 - (4) **CHM 116** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
-
- (17)

Sophomore Year

Third Semester

- (3) **BIOL 231** (Biology III: Cell Structure and Function)
 - (2) **BIOL 232** (Laboratory in Biology III: Cell Structure and Function)
 - (3) **CHM 255** (Organic Chemistry)
 - (1) **CHM 255L** (Organic Chemistry Laboratory)
 - (3) **OLS 331** (Occupational Safety and Health)
 - (4) **PHYS 220** (General Physics)
-
- (16)

Fourth Semester

- (3) **BIOL 241** (Biology IV: Genetics and Molecular Biology)
 - (3) **CHM 256** (Organic Chemistry)
 - (1) **CHM 256L** (Organic Chemistry Laboratory)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics)
 - (3) Humanities elective
-
- (17)

Junior Year

Fifth Semester

- (3) **BIOL 301** (Human Design: Anatomy and Physiology)
 - (3) **CHM 333** (Principles of Biochemistry) **or** **BCHM 561** (General Biochemistry I)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupation and Environmental Health Sciences)
 - (3) **STAT 301** (Elementary Statistical Methods) **or** **STAT 503** (Statistical Methods for Biology)
-
- (15)

Sixth Semester

- (3) **BIOL 302** (Human Design: Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (4) **HSCI 346** (Industrial Hygiene Engineering Control)
 - (3) **HSCI 348** (Industrial Hygiene Instrumentation Techniques)
 - (3) Humanities elective
-
- (17)

* A grade of "C" or higher is required in HSCI 312, 345, 346, 348, 446, and 580 for graduation with a major in occupational health science.

Senior Year

Seventh Semester

- (1) **HSCI 131** (Medical Terminology)
 - (2) **HSCI 445** (Industrial Hygiene Internship)* or Elective
 - (3) **HSCI 446** (Applied Industrial Hygiene)
 - (3) **HSCI 560** (Toxicology)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) **POL 223** (Introduction to Environmental Policy)
-
- (15)

Eighth Semester

- (4) **BIOL 221** (Introduction to Microbiology)
 - (3) **C E 350** (Environmental Engineering)
 - (3) **HK 445** (Principles of Epidemiology)
 - (3) English elective
 - (3) Humanities elective
-
- (16)

Plan of Study: Radiological and Occupational Health Sciences

See the plan of study on page 33.

Clinical Laboratory Sciences (Medical Technology)

About Clinical Laboratory Sciences

Clinical laboratory sciences or medical technology is a branch of medicine concerned with the performance of clinical tests that provide information to aid physicians in the diagnosis and treatment of disease and the maintenance of wellness.

What Do Medical Technologists Do?

Medical technologists perform laboratory procedures that reveal normal and abnormal conditions in the blood and other body fluids and tissues of medical patients. Medical technologists become adept in the operation and maintenance of sophisticated types of laboratory equipment, including chemical analyzers and electronic cell counters. Personal qualifications for a career in medical technology include interest and ability in the sciences, sound judgment, and good powers of observation.

The Clinical Laboratory Sciences Curriculum

The medical technology curriculum is structured so that you study for three years at Purdue and one year at an affiliated school of medical technology. Known as the “3 + 1” program, this plan of study allows you to complete, by the end of your junior year, the course-

work required for admission to a hospital-based training program during your senior year. The first three years provide a broadly based background in the sciences and mathematics. Major emphasis will be placed on biological sciences and chemistry. The fourth year consists of combined classroom and laboratory studies that provide experience in clinical chemistry, hematology, microbiology, serology, histology, urinalysis, parasitology, and instrumentation. Purdue’s medical technology curriculum meets the requirements adopted by the American Medical Association Council on Medical Education and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Completion of prerequisite courses at Purdue does not guarantee admission to an affiliated hospital program. In general, acceptance is based on your academic performance, biographical information, letters of recommendation, motivation, aptitude, work experience, and your performance during admission interviews conducted by the respective hospital’s admission staff.

You should consult with your academic advisor early in your academic program to plan for an alternative four-year major in case you are not accepted for admission to a hospital program at the end of your junior year. A

* An internship is strongly recommended but is not required; HSCI 445 can be taken as an elective if the student has had a previous acceptable occupational health science work experience.

student who is not accepted to a hospital school at the end of the junior year may be able to complete a bachelor's degree with a major in another area within the School of Health Sciences.

Some students complete a four-year B.S. program before entering the year of training at a school of medical technology. Successful completion of the "3 + 1" program meets the requirements for the B.S. degree from Purdue University. Upon completion of the medical technology program, you become eligible to take the national registry examination in medical technology for certification by the American Society of Clinical Pathologists (ASCP) and other certifying agencies. Medical technology also provides a good background for an M.S. degree in areas such as microbiology, clinical chemistry, pathology, immunology, physician's assistant, or forensic sciences.

Note: For students who decide on a career in medicine, the medical technology degree is excellent preparation. Specific pre-medical school requirements are discussed on page 42. The senior year spent in the hospital provides the student with an understanding of clinical diagnostic skills that is not available through any other degree program.

All students working toward the B.S. degree must complete the degree requirements of 128 credit hours indicated on page 26 and presented in the medical technology plan of study. The professional (senior) year of the medical technology program consists of 12 months of clinical training at an approved hospital program. Fourth-year clinical students will register as

full-time Purdue students and upon successful completion of their clinical training will receive 32 credit hours through the School of Health Sciences.

Hospitals affiliated with Purdue's School of Health Sciences clinical program include:

Ball Memorial Hospital
2401 University Avenue
Muncie, IN 47303-3499

Clarian Health/Methodist Hospital
I-65 at 21st Street
Indianapolis, IN 46202

Good Samaritan Hospital
520 S. Seventh Street
Vincennes, IN 47591

Parkview Memorial Hospital
2200 Randallia Drive
Fort Wayne, IN 46805

Saint Francis Medical Center
530 NE Glen Oak Avenue
Peoria, IL 61637

St. Francis Hospital and Health Center
1600 Albany Street
Beech Grove, IN 46107

St. Margaret Mercy Health Care Center
5454 Hohman Avenue
Hammond, IN 46320

Plan of Study: Clinical Laboratory Sciences (Medical Technology)

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
- (3) **CHM 111** (General Chemistry)
- (4) **ENGL 106** (First-Year Composition)
- (2) **HSCI 101** (Introduction to the Health Science Professions)
- (3) **MA 223** (Introductory Analysis I)

(16)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
- (3) **CHM 112** (General Chemistry)
- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **C S 110** (Introduction to Computers)
- (1) **HSCI 130** (Introduction to Medical Technology)
- (3) **MA 224** (Introductory Analysis II)

(17)

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology)
- (4) **CHM 257** (Organic Chemistry)
- (1) **CHM 257L** (Organic Chemistry Laboratory)
- (3) **STAT 301** (Elementary Statistical Methods)
- (3) Humanities elective
- (1) Elective

- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
- (4) **BIOL 221** (Introduction to Microbiology)
- (4) **CHM 224** (Introductory Quantitative Analysis)
- (3) **HSCI 201** (Principles of Public Health Science)
- (3) Humanities elective

- (18)

Junior Year

Fifth Semester

- (3) **AGRY 320** (Introduction to Genetics)
- (3) **HK 440** (Human Diseases and Disorders)
- (1) **HSCI 131** (Medical Terminology)
- (1) **HSCI 330** (Aspects of the Medical Technology Laboratory)
- (2) **HSCI 332** (Introduction to Hematology)
- (4) **PHYS 220** (General Physics)

- (14)

Sixth Semester

- (3) **CHM 333** (Principles of Biochemistry)
- (2) **HSCI 333** (Introduction to Immunology)
- (4) **PHYS 221** (General Physics)
- (3) English elective
- (3) Humanities elective

- (15)

Senior Year (Typical clinical year plan of study)

Seventh Semester

- (4) **HSCI 452** (Clinical Chemistry)
- (2) **HSCI 453** (Clinical Hematology)
- (2) **HSCI 454** (Clinical Immunohematology)
- (4) **HSCI 455** (Clinical Microbiology)
- (2) **HSCI 458** (Clinical Serology)
- (1) **HSCI 460** (Clinical Urinalysis)
- (1) **HSCI 490** (Special Topics)

- (16)

Eighth Semester

- (4) **HSCI 452** (Clinical Chemistry)
- (2) **HSCI 453** (Clinical Hematology)
- (2) **HSCI 454** (Clinical Immunohematology)
- (4) **HSCI 455** (Clinical Microbiology)
- (1) **HSCI 458** (Clinical Serology)
- (1) **HSCI 460** (Clinical Urinalysis)
- (1) **HSCI 465** (Introduction to Laboratory Education and Management)
- (1) **HSCI 490** (Special Topics)

- (16)

The hospital program consists of a 52-week, 40-hours-per-week intensive curriculum that includes lectures, independent study, and supervised clinical laboratory experience. Students rotate through clinical departments. In general, they receive classroom and clinical

experience in chemistry, microbiology, hematology, urinalysis, histology, and blood banking. Some programs also include mycology, parasitology, serology, nuclear medicine, cytology, and virology.

General Health Sciences

The Curriculum

The most outstanding feature of the general health sciences curriculum is its interdisciplinary nature. It is flexible and allows students to prepare for many kinds of careers related to human health. In fact, this is one of the greatest advantages of applying to the School of Health Sciences. Since all majors in health sciences have very similar course requirements during the first two years of study, students are easily able to change majors if their career goals and professional interests change.

The core curriculum provides a sound academic base in biology, chemistry, liberal arts, mathematics, and physics. The requirements for the major include a combination of advanced-level science courses with laboratories, foundation courses offered by the school, and courses specifically related to the postgraduate employment area.

Why Is there a General Health Sciences Undergraduate Major?

The school recognizes that the plans of study suggested for students majoring in clinical laboratory science (medical technology), occupational health science (industrial hygiene), radiological health science (medical physics, health physics) or environmental health science may not meet the academic and career goals of some students. Additionally, entering freshmen may be undecided about career choices. To satisfy the individual requirements of these students, the school offers a general health sciences major. Counselors and faculty work closely with every student to design the major requirements for each career path. Students in this major are strongly encouraged to select an area of concentration with the assistance of the counseling staff. The plans of study presented in this section include the base plan for general health sciences, plus the following general health sciences plans of study with a specific concentration:

- Pre-chiropractic concentration
- Pre-dentistry concentration
- Pre-medicine concentration
- Pre-occupational therapy concentration
- Pre-optometry concentration
- Pre-physical therapy concentration
- Pre-physician's assistant concentration

Which Students Should Major in General Health Sciences?

For distinguished students in health sciences, the major provides excellent preparation for entry into professional schools of dentistry, medicine, physician's assistant, chiropractic, or optometry. It is the major of choice for students planning to enter graduate programs in such allied health areas as occupational therapy or physical therapy. Students also may choose the general health sciences as preparation for entry into graduate programs in areas such as health care management and public health.

Specifically, with regard to medical school, there is no preferred or required background for pre-medicine. Medical schools seek to admit students with diverse backgrounds that include a strong foundation in the natural sciences (biology, chemistry, physics, and mathematics) together with solid coursework in the social sciences and humanities. The School of Health Sciences provides an excellent avenue toward a career in medicine, and the ability to major in one of the school's environmental, occupational or radiological health science majors with a concentration in pre-medicine can provide the student with an added advantage in presenting a diverse background when applying to medical schools.

Since different medical school admission requirements may vary somewhat, it is essential that the student check the specific requirements of each school to which application is being considered. The School of Health Sciences counseling staff will assist in preparing a suitable plan of study that will fulfill both the school's B.S. requirements and medical school admission requirements.

The Medical College Admission Test (MCAT) is a standardized test required by most medical schools for admission. This test is designed to assess understanding of science principles and basic analytical abilities. Generally, this test will be taken in the spring semester of the junior year. Your counselor will have information about the test.

Students already in one of the other health sciences majors may also choose to change to general health sciences. They are encouraged to identify their career goals as early as possible and to select the appropriate interdisciplinary

courses with the advice and approval of their academic advisors.

Is Academic Counseling Available?

For those general health sciences majors planning graduate or professional program education, the counseling staff provides extensive assistance and information pertaining to programs, prerequisites, application procedures, and preprofessional counseling.

All students in the general health sciences major must complete the degree requirements of 128 credit hours presented in the general health sciences plan of study. Students must take 15 hours of technical electives, which cannot be taken under the pass/not-pass grading option.

Plan of Study: General Health Sciences

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (3) **CHM 111** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
- (16)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (3) **CHM 112** (General Chemistry II)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
- (16)

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology I)
- (4) **CHM 257** (Organic Chemistry)
- (1) **CHM 257L** (Organic Chemistry Laboratory)
- (3) **OLS 252** (Human Relations in Organizations) **or**
OLS 274 (Applied Leadership)
- (4) **PHYS 220** (General Physics I)

(16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology II)
- (4) **CHM 224** (Introductory Quantitative Analysis)
- (3) **HSCI 201** (Principles of Public Health Science)
- (4) **PHYS 221** (General Physics II)
- (3) Humanities elective

(18)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
- (3) English elective

(10) Electives

(16)

Sixth Semester

- (3) **STAT 301** (Elementary Statistical Methods)
- (12) Electives

(15)

Senior Year

Seventh Semester

(3) Humanities elective
 (12) Electives
 (15)

Eighth Semester

(3) Humanities elective
 (12) Electives
 (15)

Plan of Study: General Health Sciences/Pre-Chiropractic Concentration

Freshman Year

First Semester

(4) **BIOL 110** (Fundamentals of Biology I)
 (4) **CHM 115** (General Chemistry) or
CHM 111 (General Chemistry) — for Logan
 Chiropractic
 (4) **ENGL 106** (First-Year Composition)
 (2) **HSCI 101** (Introduction to the Health Sciences
 Professions)
 (3) **MA 223** (Introductory Analysis I)
 (17)

Second Semester

(4) **BIOL 111** (Fundamentals of Biology II)
 (4) **CHM 116** (General Chemistry) **or**
CHM 112 (General Chemistry) — for Logan
 Chiropractic
 (3) **COM 114** (Fundamentals of Speech
 Communication)
 (3) **C S 110** (Introduction to Computers)
 (3) **MA 224** (Introductory Analysis II)
 (17)

Sophomore Year

Third Semester

(4) **BIOL 203** (Human Anatomy and Physiology I)
 (3) **CHM 255** (Organic Chemistry)
 (1) **CHM 255L** (Organic Chemistry Laboratory)
 (4) **PHYS 220** (General Physics I)
 (3) **STAT 301** (Elementary Statistical Methods)
 (15)

Fourth Semester

(4) **BIOL 204** (Human Anatomy and Physiology
 II)
 (3) **CHM 256** (Organic Chemistry)
 (1) **CHM 256L** (Organic Chemistry Laboratory)
 (3) **HSCI 201** (Principles of Public Health Science)
 (4) **PHYS 221** (General Physics II)
 (15)

Junior Year

Fifth Semester

(3) **CHM 333** (Principles of Biochemistry)
 (3) **HK 263** (Biomechanical Foundations of Motor Skills)
 (3) **HSCI 312** (Radiation Science Fundamentals)
 (3) **HSCI 345** (Introduction to Occupational and
 Environmental Health Sciences)
 (3) **PSY 120** (Elementary Psychology)
 (15)

Sixth Semester

(4) **CHM 224** (Introductory Quantitative Analysis)
 (3) **HK 463** (Analysis of Human Motion)
 (3) English elective
 (6) Electives
 (16)

Senior Year

Seventh Semester

- (3) **HK 368** (Exercise Physiology)
- (3) **HK 440** (Human Diseases and Disorders)
- (3) **HSCI 580** (Occupational Ergonomics)
- (3) Humanities elective
- (5) Elective

(17)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
- (1) **HSCI 131** (Medical Terminology)
- (3) **HSCI 252** (Human Relations in Organizations)
or **OLS 274** (Applied Leadership)
- (3) Humanities elective
- (6) Electives

(16)

Plan of Study: General Health Sciences/Pre-Dentistry Concentration

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
- (4) **CHM 115** (General Chemistry)
- (4) **ENGL 106** (First-Year Composition)
- (2) **HSCI 101** (Introduction to the Health Sciences Professions)
- (3) **MA 223** (Introductory Analysis I)

(17)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
- (4) **CHM 116** (General Chemistry)
- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **C S 110** (Introduction to Computers)
- (3) **MA 224** (Introductory Analysis II)

(17)

Sophomore Year

Third Semester

- (4) **CHM 257** (Organic Chemistry)
- (1) **CHM 257L** (Organic Chemistry Laboratory)
- (4) **PHYS 220** (General Physics I)
- (3) **STAT 301** (Elementary Statistical Methods) or
STAT 503 (Statistical Methods for Biology)
- (3) Humanities elective

(15)

Fourth Semester

- (4) **CHM 224** (Introductory Quantitative Analysis)
- (3) **HSCI 201** (Principles of Public Health Science)
- (3) **OLS 252** (Human Relations in Organizations) or
OLS 274 (Applied Leadership)
- (4) **PHYS 221** (General Physics II)
- (3) Humanities elective

(17)

Junior Year

Fifth Semester

- (3) **BIOL 301** (Human Design: Anatomy and Physiology)
- (3) **CHM 333** (Principles of Biochemistry)
- (3) **HSCI 312** (Radiation Science Fundamentals)
- (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
- (3) Elective

(15)

Sixth Semester

- (3) **BIOL 302** (Human Design: Anatomy and Physiology)
- (3) English elective
- (9) Electives

(15)

Senior Year

Seventh Semester

- (4) **BIOL 221** (Introduction to Microbiology)
- (3) **HK 440** (Human Diseases and Disorders)
- (3) **HSCI 580** (Occupational Ergonomics)
- (6) Electives

(16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
- (1) **HSCI 131** (Medical Terminology)
- (3) **NURS 214** (Introduction to Pathophysiology) **or**
BIOL 455 (Animal Physiology)
- (9) Electives

(16)

Plan of Study: General Health Sciences/Pre-Medicine Concentration

Freshman Year

First Semester

- (2) **BIOL 121** (Biology I: Diversity, Ecology, and Behavior)
- (.5) **BIOL 137A/B** (Handling Cells and Tissues, Microscopy)
- (.5) **BIOL 139A/B** (Measurement and Basic Solution Chemistry)
- (4) **CHM 115** (General Chemistry)
- (4) **ENGL 106** (First-Year Composition)
- (2) **HSCI 101** (Introduction to Health Sciences Professions)
- (3) **MA 223** (Introductory Analysis I)

(16)

Second Semester

- (3) **BIOL 131** (Biology II: Development, Structure, and Function of Organisms)
- (.5) **BIOL 136A/B** (Quantitative and Problem-Solving Skills)
- (.5) **BIOL 138A/B** (Information and Communication Skills)
- (4) **CHM 116** (General Chemistry)
- (3) **COM 114** (Fundamentals of Speech Communication)
- (3) **C S 110** (Introduction to Computers)
- (3) **MA 224** (Introductory Analysis II)

(17)

Sophomore Year

Third Semester

- (3) **BIOL 231** (Biology III: Cell Structure and Function)
- (2) **BIOL 232** (Laboratory in Biology III: Cell Structure and Function)
- (3) **CHM 255** (Organic Chemistry)
- (1) **CHM 255L** (Organic Chemistry Laboratory)
- (4) **PHYS 220** (General Physics I)
- (3) **STAT 301** (Elementary Statistical Methods) **or**
STAT 503 (Statistical Methods for Biology)

(16)

Fourth Semester

- (3) **BIOL 241** (Biology IV: Genetics and Molecular Biology)
- (2) **BIOL 242** (Laboratory in Biology IV: Genetics and Molecular Biology)
- (3) **CHM 256** (Organic Chemistry)
- (1) **CHM 256L** (Organic Chemistry Laboratory)
- (3) **HSCI 201** (Principles of Public Health Science)
- (4) **PHYS 221** (General Physics II)

(16)

Junior Year

Fifth Semester

- (3) **BIOL 301** (Human Design: Anatomy and Physiology)
- (3) **CHM 333** (Principles of Biochemistry) **or**
BCHM 561 (General Biochemistry I)
- (3) **HSCI 312** (Radiation Science Fundamentals)
- (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
- (3) English elective

(15)

Sixth Semester

- (3) **BIOL 302** (Human Design: Anatomy and Physiology)
- (4) **CHM 224** (Introductory Quantitative Analysis)
- (1) **HSCI 131** (Medical Terminology)
- (3) Humanities elective
- (5) Electives

(16)

Senior Year

Seventh Semester

- (4) **BIOL 221** (Introduction to Microbiology)
 - (3) **HK 440** (Human Diseases and Disorders)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) Humanities elective
 - (3) Elective
-
- (16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
OLS 274 (Applied Leadership)
 - (3) Humanities elective
 - (6) Electives
-
- (15)

Plan of Study: General Health Sciences/Pre-Occupational Therapy Concentration

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (3) **CHM 111** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (16)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (3) **CHM 112** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **MA 224** (Introductory Analysis II)
 - (3) **PSY 120** (Elementary Psychology)
-
- (16)

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology)
 - (4) **CHM 257** (Organic Chemistry)
 - (1) **CHM 257L** (Organic Chemistry Laboratory)
 - (4) **PHYS 220** (General Physics I)
 - (3) **STAT 301** (Elementary Statistical Methods)
-
- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics II)
-
- (18)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **HK 258** (Foundations of Motor Skill Learning)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
OLS 274 (Applied Leadership)
 - (3) Psychology elective
 - (3) Elective
-
- (15)

Sixth Semester

- (3) **CDFS 210** (Introduction to Human Development) **or**
PSY 360 (Developmental Psychology)
 - (3) **HK 261** (Applied Anatomy and Kinesiology)
 - (3) **PSY 350** (Abnormal Psychology)
 - (3) **SOC 100** (Introductory Sociology)
 - (3) Humanities elective
-
- (15)

Senior Year

Seventh Semester

- (3) **HK 440** (Human Diseases and Disorders)
 - (1) **HSCI 131** (Medical Terminology)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) Humanities elective
 - (6) Electives
-
- (16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) English elective
 - (3) Humanities elective
 - (7) Electives
-
- (16)

Plan of Study: General Health Sciences/Pre-Optometry Concentration

Freshman Year

First Semester

- (2) **BIOL 121** (Biology I: Diversity, Ecology, and Behavior)
 - (.5) **BIOL 137A/B** (Handling Cells and Tissues, Microscopy)
 - (.5) **BIOL 139A/B** (Measurement and Basic Solution Chemistry)
 - (4) **CHM 115** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (16)

Second Semester

- (3) **BIOL 131** (Biology II: Development, Structure, and Function of Organisms)
 - (.5) **BIOL 136A/B** (Quantitative and Problem-Solving Skills)
 - (.5) **BIOL 138A/B** (Information and Communication Skills)
 - (4) **CHM 116** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
-
- (17)

Sophomore Year

Third Semester

- (3) **BIOL 231** (Biology III: Cell Structure and Function)
 - (2) **BIOL 232** (Laboratory in Biology III: Cell Structure and Function)
 - (3) **CHM 255** (Organic Chemistry)
 - (1) **CHM 255L** (Organic Chemistry Laboratory)
 - (4) **PHYS 220** (General Physics I)
 - (3) **STAT 301** (Elementary Statistical Methods) **or**
 - STAT 503** (Statistical Methods for Biology)
-
- (16)

Fourth Semester

- (3) **BIOL 241** (Biology IV: Genetics and Molecular Biology)
 - (2) **BIOL 242** (Laboratory in Biology IV: Genetics and Molecular Biology)
 - (3) **CHM 256** (Organic Chemistry)
 - (1) **CHM 256L** (Organic Chemistry Laboratory)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics II)
-
- (16)

Junior Year

Fifth Semester

- (3) **BIOL 301** (Human Design: Anatomy and Physiology)
 - (3) **CHM 333** (Principles of Biochemistry)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
 - OLS 274** (Applied Leadership)
 - (6) Electives
-
- (15)

Sixth Semester

- (3) **BIOL 302** (Human Design: Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative)
 - (1) **HSCI 131** (Medical Terminology)
 - (3) **PSY 120** (Elementary Psychology)
 - (3) English elective
 - (3) Humanities elective
-
- (17)

Senior Year

Seventh Semester

- (4) **BIOL 221** (Introduction to Microbiology)
 - (3) **HK 440** (Human Diseases and Disorders)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) Humanities elective
 - (3) Elective
-
- (16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) Humanities elective
 - (9) Electives
-
- (15)

Plan of Study: General Health Sciences/Pre-Physical Therapy Concentration

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (4) **CHM 115** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (17)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (4) **CHM 116** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
-
- (17)

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology)
 - (4) **CHM 257** (Organic Chemistry)
 - (1) **CHM 257L** (Organic Chemistry Laboratory)
 - (4) **PHYS 220** (General Physics I)
 - (3) **STAT 301** (Elementary Statistical Methods)
-
- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics II)
-
- (15)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **SOC 100** (Introductory Sociology)
 - (3) Health and Kinesiology elective
 - (6) Electives
-
- (15)

Sixth Semester

- (3) **CDFS 210** (Introduction to Human Development) or **PSY 360** (Developmental Psychology)
 - (3) **OLS 252** (Human Relations in Organizations) or **OLS 274** (Applied Leadership)
 - (3) **SOC 573** (The Human Side of Medicine) or **SOC 574** (The Social Organization of Health Care)
 - (3) English elective
 - (3) Elective
-
- (15)

Senior Year

Seventh Semester

- (3) **HK 440** (Human Diseases and Disorders)
 - (1) **HSCI 131** (Medical Terminology)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) Humanities elective
 - (6) Electives
-
- (16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) Humanities elective
 - (11) Electives
-
- (17)

Plan of Study: General Health Sciences/Pre-Physician's Assistant Concentration

Freshman Year

First Semester

- (4) **BIOL 110** (Fundamentals of Biology I)
 - (3) **CHM 111** (General Chemistry)
 - (4) **ENGL 106** (First-Year Composition)
 - (2) **HSCI 101** (Introduction to the Health Sciences Professions)
 - (3) **MA 223** (Introductory Analysis I)
-
- (16)

Second Semester

- (4) **BIOL 111** (Fundamentals of Biology II)
 - (3) **CHM 112** (General Chemistry)
 - (3) **COM 114** (Fundamentals of Speech Communication)
 - (3) **C S 110** (Introduction to Computers)
 - (3) **MA 224** (Introductory Analysis II)
-
- (16)

Sophomore Year

Third Semester

- (4) **BIOL 203** (Human Anatomy and Physiology)
 - (4) **CHM 257** (Organic Chemistry)
 - (1) **CHM 257L** (Organic Chemistry Laboratory)
 - (4) **PHYS 220** (General Physics I)
 - (3) **STAT 301** (Elementary Statistical Methods)
-
- (16)

Fourth Semester

- (4) **BIOL 204** (Human Anatomy and Physiology)
 - (4) **CHM 224** (Introductory Quantitative Analysis)
 - (3) **HSCI 201** (Principles of Public Health Science)
 - (4) **PHYS 221** (General Physics II)
 - (3) **PSY 120** (Elementary Psychology)
-
- (18)

Junior Year

Fifth Semester

- (3) **CHM 333** (Principles of Biochemistry)
 - (3) **HSCI 312** (Radiation Science Fundamentals)
 - (3) **HSCI 345** (Introduction to Occupational and Environmental Health Sciences)
 - (3) **OLS 252** (Human Relations in Organizations) **or**
OLS 274 (Applied Leadership)
 - (3) Humanities elective
-
- (15)

Sixth Semester

- (4) **BIOL 221** (Introduction to Microbiology)
 - (3) **CDFS 210** (Introduction to Human Development) **or**
PSY 360 (Developmental Psychology)
 - (1) **HSCI 131** (Medical Terminology)
 - (3) Humanities elective
 - (6) Electives
-
- (17)

Senior Year

Seventh Semester

- (3) **HK 440** (Human Diseases and Disorders)
 - (3) **HSCI 580** (Occupational Ergonomics)
 - (3) Humanities elective
 - (7) Electives
-
- (16)

Eighth Semester

- (3) **HK 445** (Principles of Epidemiology)
 - (3) English elective
 - (3) Psychology elective
 - (6) Electives
-
- (15)

Graduate Study

The School of Health Sciences, under the direction of the Graduate School, offers graduate study and research leading to the M.S. and Ph.D. degrees. Major areas of study are:

- Radiological health science
 - health physics
 - medical physics
 - radiobiology
- Occupational and environmental health sciences
 - Industrial hygiene
 - Ergonomics
 - Environmental health
- Toxicology

Graduate students can major in one specific area, or they can elect an interdisciplinary course of study between major areas within the School of Health Sciences or other disciplines at Purdue University. All graduate students complete a research project under the guidance of the faculty.

Career paths and opportunities for occupational and environmental health sciences and health physics professionals were discussed in a previous section of this catalog. Graduate-level training in these areas prepares students for advanced careers in practice and research. This may include responsibilities for assessing and controlling workplace hazards, directing research investigations, administering programs, and developing policies and regulations.

Medical physics is concerned with the applications of physical energy (radiation) to the diagnosis and treatment of disease. It is closely allied with medical electronics, bioengineering, and health physics. A person with an M.S. degree in medical physics most commonly works with a radiation oncologist to

assure proper delivery of radiation for the treatment of cancer, or with a radiologist to assure high-quality diagnostic images from X-rays, CAT scans, or similar procedures.

The medical physics program is offered in cooperation with the Indiana University School of Medicine. The graduate student completes the coursework at the Purdue Campus in West Lafayette, typically during the first year. The student may then conduct research and gain clinical experience at the School of Medicine or other approved centers as part of the program.

Toxicology is the basic science of poisons. As such, it focuses on understanding the adverse effects of chemicals on living organisms by applying knowledge and techniques from biochemistry, chemistry, physiology, molecular biology, and other disciplines. Toxicologists are concerned with the hazards associated with chemicals encountered through occupational and environmental exposure, including their occurrence as air and water pollutants. In modern toxicology, emphasis is placed on understanding the mechanisms involved in the actions of toxicants in order to determine the relevance to human health. Upon completion of graduate education, toxicologists assume a variety of roles in academia, industry, and government, including teaching, research, safety evaluations, and risk analysis.

The Ph.D. degree is offered in all major areas within the School of Health Sciences.

See the Web site at <http://healthsciences.purdue.edu> for the curricular requirements for the individual programs available from the School of Health Sciences.

Graduate Assistantships and Fellowships

Several half-time graduate assistantships, with stipends comparable to other graduate programs, are available to graduate students in health sciences. Assistantships include the remission of nonresident tuition and certain fees.

Graduate teaching assistants are required to help in the laboratory and the classroom. However, the amount of service required does not exceed 20 hours a week, so an assistant can carry approximately two-thirds of the normal graduate program course load.

Through the Purdue Research Foundation, a limited number of research assistantships in health sciences have been made available for intensive, scientific training of capable, creative graduate students in health sciences. Appointments are made on an annual basis and are sub-

ject to renewal. Stipends vary, and all awards include remission of nonresident tuition and certain fees. For further information about health sciences research assistantships, write to the head of the School of Health Sciences.

Other fellowships are available from time to time from agencies such as the National Institute for Occupational Safety and Health, the National Science Foundation, the Environmental Protection Agency, the Department of Energy, the National Institutes of Health, and certain industries and private foundations.

Application forms and further information about graduate study at Purdue are available from the Graduate School's Web site at www.gradschool.purdue.edu.

Information about Courses

Official Purdue University course information is available on the Web at www.courses.purdue.edu. Click on the "Course Information — All Campuses" link at the top of the page.

The Official Purdue University Course Repository is maintained by the Office of the Registrar and is updated instantaneously. It contains a multitude of information, including course descriptions and requisites for retired, current, and future courses offered at the West Lafayette campus as well as at Purdue Calumet, Purdue North Central, Indiana University-

Purdue University Fort Wayne, Indiana University-Purdue University Indianapolis, and the College of Technology locations around the state.

The course information available online is organized by campus, program, and subject area, which enables you to tailor your search.

You also may want to consult your academic advisor if you have questions about the courses required for your plan of study.

School of Health Sciences Administration, Faculty, and Staff

Administration

Craig Svensson, Ph.D., Dean of the College of Pharmacy, Nursing, and Health Sciences
George A. Sandison, Ph.D., Head of the School of Health Sciences

Faculty

Professors: D. R. Black, *Ph.D.*; G. P. Carlson, *Ph.D.*; M. A. Green, *Ph.D.*; G. A. Sandison, *Ph.D.*;
 W. Zheng, *Ph.D.*

Professors Emeriti: G. S. Born, *Ph.D.*; J. E. Christian, *Ph.D.*, *Hovde Distinguished Service Professor of Bionucleonics and Health Sciences Emeritus*; R. R. Landolt, *Ph.D.*; S. M. Shaw, *Ph.D.*; P. L. Ziemer, *Ph.D.*

Associate Professors: J. J. Li, *Ph.D.*; S. Liu, *Ph.D.*; J. D. McGlothlin, *Ph.D.*; F. S. Rosenthal, *Ph.D.*; R. D. Stewart, *Ph.D.*; N. J. Zimmerman, *Ph.D.*

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Adjunct Faculty: N. Bansal, *Ph.D.*; C. Bloch, *Ph.D.*; L. L. Chang, *M.D.*; T. DeGrado, *M.D.*;
 U. Dydak, *Ph.D.*; J. Dynlach, *M.D.*; C. D. Griffin, *M.D.*; G. D. Hutchins, *Ph.D.*; S. G. Johnson, *Ph.D.*;
 R. A. Kruger, *Ph.D.*; M. Langer, *M.D.*; R. E. Langford, *Ph.D.*; Y. Liang, *Ph.D.*; D. W. Miller, *Ph.D.*;
 L. S. Papiez, *Ph.D.*; G. F. Perry, *M.D.*; M. R. Ringor, *Ph.D.*; S. F. Wintermeyer, *M.D.*, *M.P.H.*;
 R. M. Witt, *Ph.D.*; R. E. Zelac, *Ph.D.*

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 W. Jiang-jun, *Ph.D.*; W. Jiang, *Ph.D.*; K. Kalia, *Ph.D.*; R. Laflen, *B.S.*; N. Mantick, *M.S.*;
 J. Prasanthi, *Ph.D.*; S. Sreerama, *Ph.D.*; X. J. Wang, *C. Yang, Ph.D.*; Y. S. Zhang, *Ph.D.*

Professional Personnel: C. Gery, *M.E.*; D. A. Gillespie, *M.S.*; S. Khosravipour, *M.S.*;
 C. E. Powell, *M.S.*; R. Ricci, *M.S.*; D. G. Tate, *M.S.*; R. C. Walkup, *M.A.*

Instructional and Research Staff

David R. Black, Ph.D., Professor of Health Promotion

Charles Bloch, Ph.D., Adjunct Assistant Professor of Medical Physics

Gordon S. Born, Ph.D., Professor Emeritus of Health Sciences

Gary P. Carlson, Ph.D., Associate Head, School of Health Sciences; Professor of Toxicology

Li-Fen L. Chang, M.D., Ph.D., Adjunct Associate Professor of Health Sciences

John E. Christian, Ph.D., *Hovde Distinguished Service Professor of Bionucleonics and Health Sciences Emeritus*

Mark A. Green, Ph.D., Head, Division of Nuclear Pharmacy; Professor of Industrial and Physical Pharmacy, Radiopharmaceutical Chemistry

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Robert A. Kruger, Ph.D., Adjunct Professor of Medical Physics

Robert R. Landolt, Ph.D., Professor Emeritus of Bionucleonics

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Frank S. Rosenthal, Ph.D., Associate Professor of Occupational and Environmental Health Science
Andries Schreuder, M.S., Adjunct Clinical Instructor of Health Sciences
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Clinical Staff

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