

# COLLEGE OF HEALTH SCIENCES

## Undergraduate Catalog

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## COLLEGE OF HEALTH SCIENCES

### Degrees/Programs Offered

The college offers an array of bachelor's degrees and post-baccalaureate certificates.

The following undergraduate degrees, undergraduate minors or certificates are available:

**Athletic Training** (degree)

**Exercise Science** (degree or minor)

The following concentrations are available:  
Human Performance and Fitness Promotion  
Pre-Medicine  
Pre-Occupational Therapy  
Pre-Physical Therapy  
Pre-Physician Assistant

**Health Care Administration** (degree)

**Health Information Administration** (degree or post baccalaureate certificate)

**Public Health** (degree or minor)

Pre-Medicine

**Recreational Therapy** (degree)

**Respiratory Care** (degree)

**Speech Language Pathology** (degree)

### Admission Policies

To be admitted to the College of Health Sciences at The University of Toledo, direct-from-high-school students need a minimum cumulative high school grade point average (GPA) of 2.7 or ACT of 21.

Students not qualifying for admission to the College of Health Sciences will be admitted through The University of Toledo's the University College portal. Students who want to transfer into the College of Health Sciences must earn 12 hours of college-level work with a minimum cumulative GPA of 2.7 to enroll as a Health Sciences major.

### Selective/Limited Admission

The following programs require an additional application for admission to their professional programs:

Athletic training  
Public health  
Recreational therapy  
Respiratory care

## Requirements for Students with an Associate's Degree

Students holding associate's degrees from accredited colleges are encouraged to enroll in the College. Students may earn a bachelor's degree upon completion of two or more additional years of full-time study; see the adviser in the major to determine a plan of study. The following regulations apply:

1. Students must complete the equivalent of the specified University core.
2. In all baccalaureate programs, a minimum of 64 hours must be taken at the 2000 to 4000 levels; of these a minimum of 32 hours must be taken at the 3000 and 4000 levels. Coursework from other institutions is accepted at the level at which the course was taught at that institution.

## Admission with Transfer Credit from Another Institution

Students with a GPA of 2.7 or above wishing to transfer into the College of Health Sciences must meet the minimum entrance requirements of The University of Toledo. After submission of official transcripts from all colleges/universities attended and acceptance by the College, transfer courses are evaluated. The evaluation process must be completed before the end of the first term of attendance.

## Readmission of Former Students

Undergraduate students who discontinue course work for a period of at least one academic year (not including summer) must request readmission to the University. If students have taken any course work at another institution during the time they have been away from the University (other than transient status), they must complete a new application in the Office of Undergraduate Admission and meet transfer admission requirements.

**Students who have not taken course work for more than 12 months must comply with the college requirements at the time of readmission.**

## Change of College

Students in good standing who wish to change from another college within The University of Toledo to the College of Health Sciences should make an appointment with a college adviser in the Office of Student Services to discuss the transfer and have academic records reviewed. All program requirements, including University core, must be fulfilled as specified in the catalog for the year in which the student enters the College. All undergraduate hours attempted and earned at the University of Toledo, as well as the GPA, will transfer.

## Honors Program

The Honors Program in the College of Health Sciences provides opportunities for challenging and individualized study for undergraduate students of unusually high ability, motivation and initiative. For admission requirements, see Admission to the Honors College in the General Section of this catalog.

## Academic Policies

The College of Health Sciences adheres to all of The University of Toledo policies and procedures. Please refer to the General Section of this catalog for academic policies governing all students enrolled at the University. In any case where University, college, departmental and/or program policies conflict, the most stringent policy applies. Students should consult with their program for a complete list of all policies and procedures specifically related to their program.

## Academic Advising

The Office of Student Services coordinates academic advising for the College of Health Sciences. The office's mission is to provide quality, timely and comprehensive student services that will enhance student success in achieving academic goals. Although the ultimate responsibility for making personal and educational decisions rests with the student, his/her potential for academic success can improve considerably through relationships with the college's advisers, who can provide assistance in identifying educational options and enhancing student potential.

Students in the College of Health Sciences are assigned academic advisers. Essential services provided by advisers include degree requirements, career opportunities, and interpretations of college and University policies and procedures. Advisers are located in Gillham Hall 3100.

## GPA Recalculation for Repeated Courses

Students who have retaken a course and earned a higher grade may petition to have the first grade excluded from grade point average. Credit will only be awarded once for repeated courses. If a grade has been deleted that grade will not be used in determining the UT grade point average. However, all grades, including those for repeated courses, will be included in the determination of eligibility for graduation honors, fellowships, or other distinctions awarded on the basis of GPA. No more than a total of 12 semester hours of course work will be deleted. Students who have had their GPAs recomputed under the Academic Forgiveness Policy are not eligible for grade deletions. Specific programs within the college may have more rigorous requirements for grade deletions of major or related courses.

## Withdrawal Policy (W Grades)

The number of credit hours of W is limited to 22 hours for all undergraduate students in degree programs in the College of Health Sciences. Once a student has accumulated 22 hours of W, further withdrawals will be counted as F's in computation of the student's GPA for the purposes of probation or suspension. In addition, students risk the loss of financial aid if they accumulate excessive hours of W.

## Academic Probation and Suspension

Students with a cumulative GPA of less than 2.0 are automatically placed on probation until a cumulative GPA of 2.0 is achieved. While on probation, it is recommended students enroll for 12 or fewer credit hours. Students on probation must see an academic adviser.

Academic suspension means the student is prohibited from registering at The University of Toledo for a period of at least one semester. A student is subject to academic suspension if his or her GPA continues to fall below the minimum of 2.0 or if he or she fails to make sufficient progress toward attainment of the degree by accumulating excess W grades. Students may remove Incompletes while under suspension. Refer to the [UT Policy web](#) site for additional information on academic suspension.

## Dismissal

Dismissed students are not eligible for readmission to the College of Health Sciences. A student may be dismissed for:

- Failing to meet the conditions of readmission after suspension from the College of Health Sciences.
- Demonstrating patterns of behavior that are inappropriate for students preparing for professional roles or for failing to meet the morals standard as defined by the state of Ohio.

Regulations for probation, suspension and dismissal apply to both full-time and part-time students. In all matters, the decision of the Dean is final.

## Academic Honesty

Refer to the [UT Policy web](#) site for further information on Academic Honesty.

## Academic Grievance

Students have the responsibility and right to call to the attention of a professor any course grade believed to be in error. The college grievance procedure must be initiated within 60 days of the posting of the final grade. Academic grievances must follow the procedure described below:

- The student meets with the professor to attempt to resolve the problem.
- If meeting with the professor does not resolve the problem, the student must discuss the problem with the department chair of the faculty member who issued the grade. The chair attempts to resolve the problem, but may not unilaterally change the grade.
- If meeting with the chair does not resolve the issue, the student will forward the appeal to the associate dean for academic affairs of the College of Health Sciences.
- The college's Petition for Academic Grievance should be used for this purpose. The student must state the reasons for the appeal and the desired outcome. The student must meet with the associate dean to review and discuss the problem. The associate dean will attempt to resolve the problem by meeting with the appropriate faculty member, but may not

unilaterally change the grade.

- If the student wishes to continue the appeal, he/she must forward the appropriate information relative to the problem to the Student Grievance Council. Information on this process may be found in The University of Toledo Student Handbook. Note: If the grievance occurs during the fall or summer semester, a grievance petition must be filed with the chair of the Student Grievance Council no later than the last day of classes in the next semester. If the grievance occurs during the spring semester, the grievance petition must be filed with the chair of the Student Grievance Council no later than the last day of classes in the final summer session.

## Student Responsibilities

Students are responsible to complete the following:

- All first-year students must see an adviser each semester; all College of Health Sciences students are strongly encouraged to see a faculty or academic adviser at least once a year.
- Readmit students are responsible for degree requirements in effect at the time of readmission.
- Students are responsible for fulfilling all degree requirements.
- Students are encouraged to meet with their academic advisers as needed for assistance.
- Students must contact the Office of Student Services to schedule an advising appointment.

## Degree Requirements

Students in baccalaureate programs must complete a minimum of 124 hours of course work and have the proper number of credit hours as outlined in their program of study. In all baccalaureate programs, a minimum of 64 hours must be taken at the 2000 levels or above; of these, a minimum of 32 hours must be taken at the 3000 and 4000 levels.

## College Requirements

The College of Health Sciences is committed to the health and wellbeing of our students and the public. Consequently, all College of Health Sciences students majoring in programs that require contact with patients or clients must provide verification of appropriate immunizations and exemplify ethical practice during their academic careers at The University of Toledo. The requirements for each major are specified under the respective programs.

## University Core Curriculum

Students earning bachelor's or associate's degrees in all University colleges and programs are required to complete the University Core Curriculum. Those courses are distributed in the areas of English composition, mathematics, humanities/fine arts, social sciences, natural sciences and multicultural studies (see the General Section of this catalog for details). Some colleges and programs require courses in these areas over and above those required to fulfill University core requirements. The student's academic department or college office should be contacted for specific details.

## Residence Requirement

Students transferring from other institutions must earn at least 32 credit hours in the College of Health Sciences at The University of Toledo to be eligible for.

Full-time students transferring into Health Sciences must complete at least the final semester and 25 percent of their program of study in residence within the college. Part-time students must complete the last 12 credit hours and 25 percent of the program of study within the college.

## Application for Graduation

See the Office of the Registrar web site for additional information.

## Department of Health and Recreation Professions

### Degree Programs

Health Care Administration  
Health Information Administration  
Public Health



## Health Care Administration Requirements

The health care administration program provides students with knowledge and skills to act as health-care administrators in a variety of settings, such as hospitals, long-term care and outpatient facilities, physician offices, and public health agencies. This interdisciplinary program introduces students to managerial concepts and related skills. The health-care core courses enhance students' knowledge in a variety of related subjects, including current health issues, legislation affecting health care, and management theories and decision making, all of which are important in health care administration.

The health care administration program includes an internship to provide students the opportunity to apply educational achievements in a health care setting. Students will be exposed to health care administration operations through project-based work. Project opportunities will vary and reflect both the participant's learning goals and the needs of the health care organization.

To be considered for the internship, students must meet all academic requirements, provide their own transportation to the health care organization, and complete immunizations required by the health care organization.

## Health Care Administration Internship

The healthcare administration internship is a program designed to provide students with an opportunity to apply educational achievements in a health care setting. Students will be exposed to health care administration operations through project-based work. Project opportunities will vary and reflect both the participant's learning goals and the needs of the health care organization.

To be considered for the internship, students need to:

- Have declared Health Care Administration as their major at least one semester before beginning the internship
- Complete at least 12 credit hours in Health Care Administration required courses with a minimum grade of "C" in each course
- Have a current overall grade point average of at least 2.50
- Apply to the Health Care Administration internship prior to their last semester before graduating
- Complete the Health Care Administration application three months prior to the semester starting
- Provide resume to Health Care Administration faculty
- Interview with Health Care Administration faculty and health care organization
- Be able to provide their own transportation to the health care organization
- Attend health care organization's orientation
- Complete required immunizations from the health care organization
- Obtain security badge from health care organization
- Have approval from Health Care Administration faculty to complete internship

## Bachelor of Science in Health Care Administration Degree Requirements

Below is a sample curriculum for the Bachelor of Science in Health Care Administration. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	ENGL 1110 or 1110 College Composition I ECON 1200 Principles of Microeconomics MATH 1260 Mod. Bus. Mathematics I BUAD 1020 Micro-Comp. Applications Humanities/Fine Arts Elective HHS 1000 Freshman Orientation	3 3 3 3 3 1	ENGL 2960 Organizational Report Writing ECON 1150 Principles of Macroeconomics HEAL 1800 Medical Terminology PSY 1010 Principles of Psychology Multicultural Elective	3 3 3 3 3
	Total Hours	16	Total Hours	15
Year 2	BUAD 2040 Fin Accounting Info KINE 2560 Anatomy & Physiology I HEAL 2800 Principles of Nutrition Multicultural Elective Program Elective	3 3 3 3 3	BUAD 2050 Acct. for Bus. Decision Making KINE 2570 Anatomy & Physiology II HCAR 3000 Into to Health Care Administration PSY 2200 Abnormal Psychology General Elective	3 3 3 3 4
	Total Hours	15	Total Hours	16
Year 3	BUAD 3030 Mang & Behavioral Process BUAD 2060 Data Analysis for Business	3	BUAD 3010 Principles of Marketing PHIL 3370 Medical Ethics	3 3

	or MATH 2630 Stats for Bus & Econ Natural Science Elective HCAR 4500 Health Care Informatics Humanities/Fine Arts Elective	3 3 4 3	HCAR 4360 Quality Improve in Health Care HURM 3220 Human Resource Mgmt Program Elective	3 3 3
	Total Hours	16	Total Hours	15
Year 4	HCAR 4510 Medical & Legal Aspects of HC HCAR 4550 Health Care Finance HIM 3200 Health Care Resources, Payers HURM 3630 Conflict Res & Negotiations General Elective	3 3 3 3 3	HCAR 4530 Problem Solving in HC Environment HCAR 4540 Internship in Health Management General Elective Program Elective	4 3 3 6
	Total Hours	15	Total Hours	16

Long Term Care Concentration is available. See adviser for proper program elective selection.

## Bachelor of Science in Health Care Administration 2+2 Degree Requirements

Applied Health Care Concentration (2+2-year program)

Below is a sample curriculum for the Bachelor of Science in Health Care Administration (2+2 program). Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 3	ENGL 2960 Organizational Report Writing ECON 1200 Principles of Microeconomics HCAR 4510 Medical/Legal Aspect of Heal Care BUAD 2040 Financial Accounting Info MATH 1260 or MATH 1180	3 3 3 3 3	HCAR 4500 Health Care Info Systems ECON 1150 Principles of Macroeconomics HCAR 4360 Quality Improve in Health Care BUAD 3030 Managerial and Behavioral Process HCAR 3000 Intro to Health Care Administration	4 3 3 3 3
	Total Hours	15	Total Hours	16
Year 4	HCAR 4530 Problem Solving in Health Care HURM 3220 Intro to Human Res Management BUAD 3010 Principles of Marketing MATH 2600 Statistics, BUAD 2060 Data Analysis for Bus or HEAL 4800 Public Health 7 Res Stats Program Elective	4 3 3 3 3 3	HCAR 4550 Health Care Finance HCAR 4540 Internship in Health Management PHIL 3370 Medical Ethics Program Elective(s)	3 3 3 3-6
	Total Hours	16	Total Hours	12-15

University Core Curriculum requirements must be met. Electives available include HIM 3200 Healthcare Resources, Payers and Consumers – 3 hours.

## Bachelor of Science in Health Information Administration

The curriculum of the Bachelor of Science degree in health information administration (HIA) can be completed online. It encompasses a broad range of disciplines, including medicine, health, business, informatics and information management. Graduates serve in a variety of health-care managerial and administrative roles, including planning, organizing, controlling and evaluating health information systems; applying legal principles, policies, regulations and standards and analyzing their impact on risk management; and supervising personnel in various health-care settings. Health information managers are responsible for health records and must assure adequate documentation for accurate classifying and indexing of diagnoses, treatments and procedures for the purpose of planning, and reimbursement. Health information administrators are responsible for planning, engineering, workflow applications, research, reporting and policy administration.

The Health Information Administration program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) with the Commission on Accreditation. Graduates of the HIA program at The University of Toledo are eligible to sit for the certification examination. The American Health Information Management Association (AHIMA) grants successful examination candidates recognition as Registered Health Information Administrators (RHIA).

## Requirements

Professional practice experience (PPE) is an integral part of the health administration curriculum. The PPE is project oriented with students acting as Project Managers, creating a proposal letter and project forms, deliverable(s), presentation, survey and follow up analysis. Sites and projects vary by location. Students are required to meet all site requirements including immunizations and background checks. Students must provide their own transportation to the site.

## Bachelor of Sciences in Health Information Degree Requirements

Students should follow and complete the degree requirements. Below is a sample curriculum for the Bachelor of Science in Health Information Administration. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	ENGL 1110 or 1110 College Composition I HEAL 1800 Medical Terminology BUAD 1020 Microcomputer Applications or CMPT 1100 Computer Info Systems KINE 2560 Anatomy and Physiology I HHS 1000 Freshman Orientation	3 3 3 3 1	KINE 2570 Human Anatomy & Physiology II MATH 1180 Mathematics for Liberal Arts BMGT 1540 Organizational Behavior or BUAD 2030 Leadership and Org Sur Skills Social Science Elective Natural Science Elective	3 3 3 3 3
	Total Hours	13	Total Hours	15
Year 2	ENGL 2950 Science & Technical Report or ENGL 2960 Organizational Report Writing KINE 2580 Human Pathophysiology Social Science Elective Humanities/Fine Arts Elective Multicultural Elective	3 3 3 3 3	HIM 2210 Med Linguistics in Ancillary Services MATH 2600 Intro to Statistics BMGT 2020 Human Resource Mgmt. ACTG 2310 Cost Accounting in HR Multicultural Elective	3 3 3 3 3
	Total Hours	15	Total Hours	15
Year 3	HIM 2200 HC Res, Payers & Consumer HIM 2310 Acute Care Clinical Class Systems HIM 2230 HC Documentation Req HIM 3940 Healthcare Content and Record HIM 2260 Legal Issues	3 3 3 4 2	HIM 2320 Ambulatory Clinical Classification HIM 3240 Health Info Admin Practices HCAR 4360 Quality Improvement – Health Care Upper Division Program Support Course Humanities/Fine Arts Elective	3 4 3 3 3
	Total Hours	15	Total Hours	16
Year 4	HIM 2350 Reimbursement Methodologies HIM 4210 Healthcare Stats, Registr, Resch HIM 4220 Project Management in HC HIM 4230 Compliance & Ethical Issues Upper Division Program Support Course Elective (foreign language recommended)	2 4 3 3 3 3	HIM 4910 Integrative Capstone Experience HIM 4940 Professional Practice HCAR 4500 Health Care Informatics Upper Division Program Support Course Elective (foreign language recommended)	3 4 4 3 3
	Total Hours	18	Total Hours	17

Graduation requires 123-125 semester hours. Students must complete at least 64 hours at the 2000 course level or above. Students must complete at least 32 hours at the 3000-4000 course level. See department for program support course selection.

## Post Baccalaureate Certificate in Health Information Administration

### Degree Requirements

The post-baccalaureate certification in health information administration program requires a total of 35 credits as listed on the CHIA program of study including a practical experience. Prerequisites are required for four of the HIM courses. HIM 2210 Medical Linguistics requires a prerequisite of a medical terminology course; and HIM 4210 Statistics, Registries and Research requires a statistical math course, HIM 2310 requires a prerequisite of anatomy and physiology (I & II) pathophysiology courses, and HIM 2320 requires a prerequisite of anatomy and physiology (I & II) courses. Students may choose to take these prerequisites at UT or transfer equivalent course credit from another accredited college/university. Students must complete 25% of the program hours and the last 12 hours at the University of Toledo.

Students should follow and complete the post baccalaureate certificate requirements. Below is a sample curriculum. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester		Summer Sem
Year 1	HIM 2210 Medical Ling in Ancillary Ser HIM 2230 Health Care Documentation HIM 2260 Legal Iss in HC HIM 2310 Acute Care Clinical Classif HCAR 4500 Health Care Informatics	3 3 2 3 4	HIM 2320 Ambulatory Care Clinical HIM 2350 Reimbursement Methodol HIM 3240 Health Information Admin HIM 4210 Healthcare Statistics, Regis HIM 4230 Compliance & Ethical Issues	3 2 4 4 3	HIM 4940 Professional Prac Exp II (Total Hours 4)
	Total Hours	15	Total Hours	16	



Students without a strong history in health care should consider taking HIM 2200-995 Healthcare Resources, Payers and Consumers as an elective and introductory course into the field. Additionally, anatomy and physiology and pathophysiology are beneficial to those without a strong science background.

Students lacking business or computer information management courses in their backgrounds should consider taking any of the following electives to improve your business and IT management knowledge level.

- ACTG 2310-995 Financial Management in Healthcare
- CNET 2150-995 Hardware Architecture and Management
- CMPT 1420-995 Database Management Systems Applications
- CMPT 1410-995 Electronic Spreadsheet Applications
- CMPT 2460-995 Advanced Electronic Spreadsheet Applications (CMPT 1410 prerequisite)
- BUAD 3030-995 Managerial and Behavior Processes in Organizations
- HCAR 4360-995 Quality Improvement in Healthcare

## Bachelor of Science in Public Health

The public health program is designed to prepare students to work in non-profit health organizations, in local, state and national government health agencies, or in worksite wellness. A public Health major and minor are available through this program. The mission of the undergraduate Public Health Program is to prepare students to use theory-driven approaches to promote health and prevent disease within specific populations. The program is reviewed and fully accredited by the SOPHE/AAHE Baccalaureate Approval Committee (SABPAC).

Public health field is growing increasingly competitive. To enroll in the core requirement courses, including the sophomore level practicum and 400-hour senior internship, at least a 2.7 GPA is required. Because of the strong engagement with the community, students are held to a high level of professionalism. Students are expected to perform with excellence in the classroom; act with a high level of professionalism in all areas; join and actively participate in our student organization (Eta Sigma Gamma); attend local, state, and/or regional professional conferences; get involved in research with faculty members; and participate in community service.

## Bachelor of Science in Public Health – Degree Requirements

Students should follow and complete the degree requirements as displayed in the public health program of study chart found on the Bachelor of Science in Public Health website.

Below is a sample curriculum for the Bachelor of Science in Public Health. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	ENGL 1110 or 1110 College Composition I HEAL 2000 Foundations for Health Ed MATH 1180 Mathematics for Liberal Arts Multicultural Elective Humanities/Fine Arts Elective HHS 1000 Freshman Orientation  Total Hours	3 3 3 3 3 1 16	ENGL 2950 Science Technical Report Writing CHEM 1120 Chemistry for Health Sciences BIOL 2150 Fundamentals of Life Sciences BIOL 2160 Fundamentals of Life Sciences Lab SOC 1750 Social Problems  Total Hours	3 4 4 1 3 15
Year 2	KINE 2510 Human Anatomy KINE 2520 Human Anatomy Lab HEAL 2750 Intro to Epidemiology HEAL 2700 Public Health Skills/Comm Health Elective Humanities/Fine Arts Elective  Total Hours	3 1 3 3 3 3 16	KINE 2530 Human Physiology KINE 2540 Human Physiology Lab HEAL 2400 General Safety HEAL 2940 Practicum in Community Health Multicultural Elective Skills/Community Health Elective  Total Hours	3 1 3 1 3 4 15
Year 3	HEAL 3000 Global Health HEAL 3500 Environmental Health KINE 3520 Applied Exercise Physiology KINE 3530 Applied Exercise Physiology Lab Social Science Core Elective Elective  Total Hours	3 3 3 1 3 3 16	HEAL 3600 Prev/Control of Disease HEAL 4100 Health Behavior HEAL 4800 Public Health Research /Stats KINE 3730 Fitness Assessment/Program Skills/Comm Health Elective Health Elective  Total Hours	3 3 3 2 3 3 17
Year 4	HEAL 4200 Methods/Materials in Com Health HEAL 4700 Nutritional Science	3 3	HEAL 4940 Senior Field Experience KINE 2590 Micro and Infectious Disease	9 3

	HEAL Health Elective	3	Social Science Support Elective	3
	Social Science Support Elective	3		
	Elective	3		
	Total Hours	15	Total Hours	15

## Bachelor of Science in Public Health – Pre-Medicine Major

Public Health: Pre-Med is a 124 credit hour track option within the existing Bachelors of Science in Public Health. This track meets all of the accreditation requirements through the core public health courses and includes a variety of other classes to supplement this core. The Pre-Med track is targeted toward those students who are interested in impacting the health and well-being of communities and want to build upon that with a medical degree after the completion of the bachelor's degree. This track provides several options upon completion of the degree: 1) meet all of the requirements for admission into most medical schools and also have additional coursework that will provide a strong foundation for a physician; 2) obtain a career in the field of public health education which the Bureau of Labor Statistics predicts to have a 21% growth by 2022; or 3) seek graduate education in a public health field.

Students should follow and complete the degree requirements as displayed in the program of study for the public health: pre-med track found on the Bachelor of Science in Public Health website.

Below is a sample curriculum for the Bachelor of Science in Public Health: Pre-Med Track. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	HHS 1000 CHHS Orientation BIOL 2150 Fund of Life Science BIOL 2160 Fund of Life Science Lab CHEM 1230 General Chemistry I CHEM 1280 General Chemistry I Lab ENGL 1100 Composition I with Workshop	1 4 1 4 1 3	BIOL 2170 Fund of Life Science II BIOL 2180 Fund of Life Science II Lab CHEM 1240 General Chemistry II CHEM 1290 General Chemistry II Lab ENGL 2950 Scientific/Tech. Report Writing	4 1 4 1 3
	Total Hours	14	Total Hours	13
Year 2	KINE 2510 Human Anatomy KINE 2520 Human Anatomy Lab HEAL 2600 Mental Health MATH 1750 Math for the Life Sciences I COMM 3840 Interpersonal Communication HEAL 2500 Personal Health	3 1 3 4 4 3	KINE 2530 Human Physiology KINE 2540 Human Physiology Lab MATH 1760 Math for the Life Sciences II HEAL 2700 Intro to Public Health SOC 2640 Race, Class, and Gender	3 1 3 3 3
	Total Hours	18	Total Hours	13
Year 3	CHEM 2410 Organic Chemistry I CHEM 2460 Organic Chem I Lab PHIL 2400 Contemporary Moral Problems BMGT 2750 Cultural Comm. in Workplace HEAL 2750 Intro to Epidemiology HEAL 3500 Environmental Health	3 1 3 3 3 3	CHEM 2420 Organic Chemistry II CHEM 2470 Organic Chemistry II Lab ANTH 4760 Medical Anthropology HEAL 4800 Public Health Research and Stats HEAL 3600 Prevention and Control of Disease HEAL 3000 Global Health	3 1 3 3 3 3
	Total Hours	16	Total Hours	16
Year 4	PHYS 2070 General Physics I CHEM 3510 Biochemistry I HEAL 4100 Health Behavior HEAL 4200 Methods/Mat'l in Public Health HEAL 4700 Nutritional Science	5 3 3 3 3	PHYS 2080 General Physics II CHEM 3520 Biochemistry II HEAL 4940 Senior Field Experience HEAL 3800 Death and Dying SOC 4180 Medical Sociology	5 3 3 3 3
	Total Hours	17	Total Hours	17

## Recreation and Leisure Studies Programs

Recreation and leisure studies offer a bachelor of science (BS) in recreational therapy (RECT). The baccalaureate RECT program is accredited by the National Recreation and Park Association (NRPA). This program meets professional standards set by the National Council for Therapeutic Recreation Certification (NCTRC), National Therapeutic Recreation Society (NTRS), and the American Therapeutic Recreation Association (ATRA).

Students completing the RECT program may enroll in the pre-occupational therapy track. Students graduating from the RECT program have met the educational and clinical requirements to take the examination for Certified Therapeutic Recreation Specialist (CTRS) by the National Council for Therapeutic Recreation Certification.

### Bachelor of Science in Recreation Therapy

Students wishing to major in the recreation therapy program enter as pre-recreational therapy majors. The pre-recreational therapy student enrolls in University undergraduate core curriculum courses, pre-recreational therapy curriculum courses and recreational therapy support curriculum courses.

Students enrolling in the recreational therapy program receive an education designed to prepare them for employment in the areas of physical rehabilitation, psychiatric rehabilitation, geriatric services, pediatric services, camps for individuals with disabilities, community recreation for individuals with disabilities and centers for mental retardation/developmental disabilities.

### Requirements

- Current certification in CPR
- Immunizations: Mantoux, Rubella Titer/ Roseolla (MMR), Hepatitis B required. Additional immunizations may be required by internship agency.
- Background checks: May be required by internship agency
- Physical requirements: "Fit for Duty" test may be required internship agency
- Transportation: Students must provide their own transportation to internship site

### Bachelor of Science in Recreational Therapy – Degree Requirements

Below is a sample curriculum for the Bachelor of Science in Recreational Therapy. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester		Summer Sem
Year 1	RCRT 1300 Intro to Rec & Leisure PSY 1010 Principles of Psychology SOC 1010 Intro to Sociology ENGL 1110 College Comp I MATH 1180 Math for Liberal Arts HHS 1000 College Orientation  Total Hours	3 3 3 3 3 1 16	RCRT 1310 Recreation Programming PSY 2510 Lifespan Developmental Psy Natural Science Elective ENGL 2960 Org Report Writing Humanities Elective  Total Hours	3 3 3 3 3 15	
Year 2	RCRT 2300 Rec Leadership & Gr Dyn KINE 2560 Anatomy & Physiology I KINE 2460 Anatomy & Physiology I Lab PSY 2200 Abnormal Psychology Multicultural (Non-US) Elective  Total Hours	3 3 1 3 3 13	RCRT 3310 Rec & Adapt for Spec Pro KINE 2570 Anatomy & Physiology II KINE 2570 Anatomy & Physio II Lab HEAL 1800 Medical Terminology RCRT 4720 Introduction to TR  Total Hours	3 3 1 3 3 13	
Year 3	RCRT 4730 Med/Clinical Aspects in TR Humanities Elective Track Elective Select 3 from RCRT 4600, 4610, 4630, 4660, 4670  Total Hours	3 3 3 3 15	RCRT 4740 Assessment & Doc TR RCRT 4750 Group Dynamics in RT RCRT 4790 Med/Clinical Aspects in TR II RCRT 4340 Leisure Recreation & Aging Select 2 from RCRT 4600, 4610, 4630, 4660, 4670  Total Hours	3 3 3 3 2 14	RCRT 4840 RT Clinical: Pediatric RCRT RT Clinical: Physical Rehab (Total Hours 2)
Year 4	RCRT 4450 Research Appl Rec &RT RCRT 3710 Adv Prog in Rec & RT	3 3	RCRT 4330 Administration Rec & RT RCRT 4870 Program Planning RT	3 3	RCRT 4770 Proj Design

	Track Elective	3	Select 1 from RCRT 4810, 4820, 4830	1	RCRT 4930 Sr
	RCRT 4850 Internship Prep: RECT	1	Select 3 from RCRT 4620, 4640, 4680,	3	Internship
	Select 2 from RCRT 4810, 4820, 4830	2	4690, 4860		RCRT 4930 Sr
	Sect 2 from RCRT 4620, 4640, 4680,		Multicultural (US) Elective	3	Internship
	4690, 4860	2			RCRT 4780
					Proj Eval RLS
					(Total Hours 12)
	Total Hours	14		Total Hours	13

## UT Pre-Occupational Therapy

The pre-occupational therapy track within the recreational therapy degree can provide the student with the background needed for application to the graduate degree in the occupational therapy. The occupational therapy doctorate is offered at The University of Toledo in the College of Education, Health Science and Human Service.

### UT Pre-Occupational Therapy Requirements – 6 hours

- OCCT 2550 Purposeful Living Role of Occupational Therapist
- One course from any other track or an elective approved by faculty adviser

### UT Occupational Therapy Program Selection Application Criteria

To apply for admission to the graduate occupational therapy program at The University of Toledo, students must meet these criteria:

1. Completion of PSY 1010 Principles of Psychology, SOC 1010 Introduction of Sociology, PSY 2510 Lifespan Development Psychology, PSY Abnormal Psychology, KINE 2560 Anatomy & Physiology I, KINE 2570 Anatomy & Physiology II, Biology and HEAL 1800 Medical Terminology with a B- or higher in each course.
2. Completion of a bachelor's degree with a minimum GPA of 3.0 GPA. If GPA is 3.5 or greater, the GRE is not required. Students can be selected prior to completion of their bachelor's degree. Students must have a minimum GPA of 3.0 at the time of application and must maintain a minimum GPA of 3.0 after acceptance.
3. Completion of the GRE with an average of 33% across the three areas – verbal, quantitative and writing.
4. Prerequisites: must have achieved a B- or better in all prerequisites. Consult the following website for more specific information <http://www.utoledo.edu/hshs/ot/index.html>

Applications are available in mid-July; applications may be submitted any time after September 1st for admission the following academic year. Applications are processed and students are accepted as applications are received (rolling admission) until the class is filled. Applicants are encouraged to apply for early admission. The occupational therapy program is selective and completion of the above criteria does not guarantee admission into the program. US News and World Report rates the University of Toledo's occupational therapy graduate program in the top 25% of graduate level occupational therapy programs in the country.

## Department of Kinesiology

### Degree Programs

- Bachelor of Science in Athletic Training
- Bachelor of Science in Respiratory Care
- Bachelor of Science in Exercise Science
- Concentrations:
  - Human Performance and Fitness Promotion
  - Pre-Medicine
  - Pre-Occupational Therapy
  - Pre-Physical Therapy
  - Pre-Physician Assistant

## Athletic Training

The Bachelor of Science in athletic training prepares students for entry-level positions in college/university, high school, sports medicine clinic, professional sports, performing arts, military and industrial settings. Athletic trainers work under physicians to ensure the health and safety of physically active individuals. They work cooperatively with other allied health personnel and coaches to accomplish this goal. The athletic training education program is accredited by the Commission on Accreditation of Athletic Training Education. In Ohio, athletic training is a licensed profession requiring an additional examination to be licensed. Athletic training is a regulated profession in 47 states, and the UT program meets or exceeds the criteria in almost all of those states.

Any student may declare an interest in the athletic training education program and begin the pre-professional component of the program. Students are accepted into the professional component on a space-available basis. At the end of the first year, students must file an application for acceptance into the professional component of the athletic training education program with the program coordinator. The maximum capacity of the entering the second year class is based on instructional capacity, the number of off-campus clinical sites, and the number of clinical opportunities in intercollegiate athletics at UT. Students usually begin in the fall semester and are required to take KINE 1110 Introduction to Athletic Training at that time. Students who begin in the Spring semester must take KINE 1110, Introduction to Athletic Training, along with KINE 1650, KINE 1660, KINE 2510, KINE 2520 and HEAL 1500.

Acceptance into the professional program occurs at the beginning of a student's second year of involvement with the athletic training education program. The Board of Certification (BOC) requires athletic training students to complete their clinical experience during a minimum of two years and a maximum of five years. Consequently, transfer students may not complete the athletic training education program in fewer than four years from the date of the first enrollment in the program.

Athletic training students are required to have:

- Immunizations: Hepatitis B, MMR, TDap, Varicella, 2 step PPD as well as an annual intradermal test.
- Criminal background check: May be required by off campus clinical sites, at the student's expense.
- Physical requirements: Ability to assist patients during therapeutic exercise as well as lift/move/load equipment during practice preparation and teardown.
- Transportation: Students are responsible for their own transportation to sites within a 20 mile radius from campus.

For a detailed description of policies and procedures, see the website.

<http://www.utoledo.edu/healthsciences/depts/kinesiology/athletictraining/index.html>

**Note: Students will no longer be accepted into the Bachelor of Science in Athletic Training Degree Program beginning Fall 2016.**

## Bachelor of Science in Athletic Training - Degree Requirements

Below is a sample curriculum for the Bachelor of Science in Athletic Training. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	ENGL 1110 College Composition I HHS 1000 Freshman Orientation KINE 1110 Intro to Athletic Training MATH 1340 Algebra & Trigonometry BIOL 2150 Fund of Life Science I BIOL 2160 Fund of Life Science I Lab	3 1 2 4 4 1	KINE 1650 Care and Prevention of Injuries KINE 1660 AT Taping Lab KINE 1700 Intro to Exercise Science HEAL 1500 First Aid KINE 2510 Human Anatomy KINE 2520 Human Anatomy Lab BIOL 2170 Fund of Life Science II BIOL 2180 Fund of Life Science II Lab	3 1 2 2 3 1 4 1
	Total Hours	15	Total Hours	17
Year 2	KINE 2610 Lower Extremity Evaluation KINE 2630 Applied Anat for Athletic Training I KINE 2710 Clinical Skill Development I ENGL 2950 Scientific Tech Report Writing CHEM 1230 General Chemistry I CHEM 1280 General Chemistry I Lab	3 1 2 3 4 1	KINE 2620 Upper Extremity Evaluation KINE 2640 Applied Anat for Athletic Training II KINE 2720 Clinical Skill Development II KINE 2530 Human Physiology KINE 2540 Human Physiology Lab PSY 1010 Principles of Psychology COMM 1010 Communication Principles	3 1 2 3 1 3 3
	Total Hours	14	Total Hours	16
Year 3	KINE 3630 Therapeutic Modalities KINE 3710 Clinical Skill Development III KINE 3520 Exercise Physiology KINE 3530 Exercise Physiology Lab KINE 3830 Strength Training PHYS 2070 Physics-Mechanical	3 2 3 1 3 5	KINE 3660 Rehab of Athletic Injuries KINE 3610 General Medical Conditions KINE 3720 Clinical Skill Development IV KINE 3680 Sport and Exercise Pharmacology Humanities/Fine Arts Elective Multicultural Elective	3 2 2 2 3 3
	Total Hours	17	Total Hours	15
Year 4	KINE 4650 Organization and Admin of AT KINE 4710 Clinical Skill Development V HEAL 2500 Personal Health MATH 2600 Intro to Statistics KINE 4540 Applied Biomechanics KINE 4550 Biomechanics Lab	3 2 3 3 3 1	KINE 4720 Clinical Skill Development VI HEAL 4700 Nutrition Science Multicultural Elective Social Science Core Elective KINE Elective	2 3 3 3 4
	Total Hours	15	Total Hours	15



## Exercise Science Programs

The Bachelor of Science degree in exercise science (B.S.E.S.) is designed for students who want to study the anatomical, physiological, biomechanical and psychological bases of human physical performance. The curriculum has a strong foundation in the natural sciences; students have the opportunity to specialize in one of the following areas: human performance and health fitness, pre-occupational therapy, pre-physical therapy, and pre-physician assistant. Many students use the degree as a steppingstone to graduate education in exercise science, medicine and other allied health fields such as physical therapy and occupational therapy.

Additional information about the Bachelor of Science in exercise science degree can be found at the department's web site at [www.utoledo.edu/hshs/kinesiology/undergradprograms.html](http://www.utoledo.edu/hshs/kinesiology/undergradprograms.html)

## Bachelor of Science in Exercise Science Degree Requirements

Students should follow and complete the degree requirements as displayed in the exercise science program of study charts.

### Human Performance and Fitness Promotion

Many exercise science students are interested in applying their interest and expertise in human physical performance to the prevention and treatment of disease and disability of the enhancement of health and fitness, and to the facilitation of sport performance through training and conditioning. The B.S.E.S. concentration in human performance and health fitness is designed for these students. Beyond the required exercise science courses, these students take additional course work that focuses on the use of exercise and exercise testing in the diagnosis and treatment of cardiovascular and metabolic diseases, reduced muscle strength and endurance tolerance. Students in this concentration will focus on the development of exercise programs that are designed to enhance health, general fitness and exercise performance.

In addition to a practicum and two internships, many students complete one or more of the certification programs offered by organizations such as the American College of Sports Medicine and the National Strength and Conditioning Association. These certifications, in combination with the student's academic training, provide excellent credentials for employment in fitness/wellness programs, cardiovascular rehabilitation, as well as many commercial fitness facilities.

### Requirements

- Immunizations: Hepatitis B, Rubella, Rubeola, Varicella (Chickenpox), Mumps, Tetanus/Diphtheria or Teanus, Diphtheria and Acellular Pertussis, Tuberculosis, Flu Vaccination within past 12 months.
- Certification in CPR
- Criminal background check: required
- Physical requirements: must be able to move, lift or carry equipment weighing up to 50 lbs., push equipment up to 600 lbs., and lift/assist clients up to 300 lbs. with assistance. Must have full range of body motion and eye/hand coordination. Required to have corrected vision and hearing to normal range.
- Transportation: Students must provide own transportation to sites up to 100 mile radius

### Technical Skills

- Speech, Vision and Hearing Demands: Be able to interact and communicate effectively
- Physical Demands: Performance of appropriate exercise recommendations involves standing, walking, and moving of heavy exercise equipment.
- Mental Demands: Must possess the emotional health required for full utilization of intellectual abilities (appropriate medical judgment)

## Bachelor of Science in Exercise Science – Human Performance and Fitness Promotion Requirements

Below is a sample curriculum for the Bachelor of Science in Exercise Science. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	BIOL 2150 Fund of Life Sciences I BIOL 2160 Fund of Life Sciences I Lab ENGL 1110 College Composition I HHS 1000 Freshman Orientation KINE 1700 Intro to Exercise Science MATH 1340 Algebra & Trigonometry  Total Hours	4 1 3 1 2 5 16	+KINE 2510 Human Anatomy +KINE 2520 Human Anatomy Lab ENGL 2950 Scientific Tech Report Writing HEAL 1800 Medical Terminology Humanities/Fine Arts Elective Social Science Core Elective  Total Hours	3 1 3 3 3 3 16
Year 2	+KINE 3240 Conc of EXSC Fit and Heal Strat <b>(FL)</b> Multicultural Non Western Elective KINE 2530 Human Physiology KINE 2540 Human Physiology Lab PHYS 2070 General Physics I <b>(FL)</b>  Total Hours	3 3 3 1 5 15	CHEM 1230 General Chemistry I CHEM 1280 General Chemistry I Lab KINE 4540 Biomechanics KINE 4550 Biomechanics Lab KINE 2580 Human Patho for Health Care COMM 2840 Interpersonal Communication  Total Hours	4 1 3 1 3 3 15
Year 3	+KINE 3850 Cardiac Dysrhythmias Inter <b>(FL)</b> +KINE 3860 Cardiac Dysrhythmia Inter Lab <b>(FL)</b> +KINE 3830 Prin Stren and Condition <b>(FL)</b> +KINE 3620 Prof Respon in Fit Ind <b>(FL)</b> +KINE 4830 Prin of Endurance Cond <b>(FL)</b> Multicultural US Diversity  Total Hours	3 1 3 3 3 3 16	HEAL 4700 Nutritional Science +KINE 4850 Clinical Exercise Testing <b>(SP)</b> +KINE 4860 Clinical Exercise Testing Lab <b>(SP)</b> +KINE 3680 EXSC & Sport Pharmacology <b>(SP)</b> 3000/4000 level elective 3000/4000 level elective  Total Hours	3 3 1 3 3 3 16
Year 4	+KINE 4640 Neuro/Patho Foundations +KINE 4140 Fitness Internship I <b>(FL)</b> HEAL 4750 Obes and Eat Disorders <b>(FL)</b> Social Science Elective  Total Hours	3 4 3 3 3 16	+KINE 4840 Fitness Internship II <b>(SP)</b> +KINE 3950 Research Design in EXSC <b>(SP)</b> KINE 4210 Exsc Fac Management <b>(SP)</b> +KINE 3520 Applied Exercise Physiology +KINE 3530 Exercise Physiology Lab  Total Hours	4 3 3 3 1 14

+ Indicates that a "C" or better is required in this course  
 Courses noted with FL or SP are only offered in those semesters

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## Pre-Occupational Therapy

### Bachelor of Science in Exercise Science – Pre-Occupational Therapy Requirements

Below is a sample curriculum for the Bachelor of Science in Exercise Science (Pre-Occupational Therapy). Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	BIOL 2150 Fund of Life Science I BIOL 2160 Fund of Life Science I Lab MATH 1340 Algebra & Trigonometry KINE 1700 Intro to Exercise Science HHS 1000 Freshman Orientation Humanities/Fine Arts Elective  Total Hours	4 1 4 2 1 3 15	BIOL 2170 Fund of Life Science II BIOL 2180 Fund of Life Science II Lab PSY 1010 Principles of Psychology OCCT 2550 Purposeful Living Role OT HEAL 1500 First Aid ENGL 1110 College Composition I  Total Hours	4 1 3 3 2 3 16
Year 2	CHEM 1230 General Chemistry I CHEM 1280 General Chemistry I Lab KINE 2510 Human Anatomy KINE 2520 Anatomy Lab ENGL 2950 Scientific Tech Report Writing Social Science Core Elective  Total Hours	4 1 3 1 3 3 16	HEAL 1800 Medical Terminology CHEM 1240 General Chemistry II CHEM 1290 General Chemistry II Lab KINE 2530 Human Physiology KINE 2540 Human Physiology Lab SOC 1010 Intro to Sociology  Total Hours	3 4 1 3 1 3 16

	Total Hours	15	Total Hours	15
Year 3	KINE 2960 Growth, Devel & Motor Lng KINE 3520 Applied Exercise Physiology KINE 3530 Exercise Physiology Lab PHYS 2070 General Physics I KINE 2580 Pathophysiology	4 3 1 5 3	COMM 3840 PSY 2200 Abnormal Psychology Multicultural Elective KINE 3680 Exercise and Sport Pharm HHS 2/4980 PMD Clinical	4 3 3 3 3
	Total Hours	16	Total Hours	16
Year 4	KINE 4540 Applied Biomechanics KINE 4550 Applied Biomechanics Lab KINE 3240 Conc of EXSC Fit and Heal Strat RESM 4100 Educational Statistics PSY 2510 Lifespan Developmental Psychology KINE 3200 Advanced Human Anatomy	3 1 3 3 3 3	HEAL 4700 Nutritional Science HEAL 4560 Health Problems of Aging KINE 3950 Research Design in EXSC Multicultural Elective KINE 4640 Neuro and Patho of Rehab	3 3 3 3 3
	Total Hours	16	Total Hours	15

## Pre-Physical Therapy

The pre-physical therapy concentration provides students with the opportunity to complete the B.S.E.S. degree and prepare for admission into a graduate entry-level physical therapy program. The curriculum provides a mix of science and health related courses and clinical experiences that are intended to provide the ideal preparation for admission into the university's doctor in physical therapy program, as well as meet the admission requirements for similar programs across the country. Many students who complete the program will apply for admission to The University of Toledo's Doctor in Physical Therapy program, which has long been affiliated with this program. All physical therapy programs involve a competitive admission process. Thus, completion of the pre-physical therapy option at UT does not guarantee acceptance to a physical therapy program.

## Bachelor of Science in Exercise Science – Pre-Physical Therapy Requirements

Below is a sample curriculum for the Bachelor of Science in Exercise Science (Pre-Physical Therapy). Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester	
Year 1	BIOL 2150 Fund of Life Science I BIOL 2160 Fund of Life Science I Lab MATH 1340 Algebra & Trigonometry KINE 1700 Intro to Exercise Science HHS 1000 Freshman Orientation Humanities/Fine Arts Elective	4 1 5 2 1 3	BIOL 2170 Fund of Life Science II BIOL 2180 Fund of Life Science II Lab PSY 1010 Principles of Psychology HHS 2980 PMD Clinical HEAL 1500 First Aid ENGL 1110 College Composition I	4 1 3 3 2 3
	Total Hours	16	Total Hours	16
Year 2	CHEM 1230 General Chemistry I CHEM 1280 General Chemistry I Lab KINE 2510 Human Anatomy KINE 2520 Anatomy Lab ENGL 2950 Scientific Tech Report Writing Social Science Core Elective	4 1 3 1 3 3	HEAL 1800 Medical Terminology CHEM 1240 General Chemistry II CHEM 1290 General Chemistry II Lab KINE 2530 Human Physiology KINE 2540 Human Physiology Lab Multicultural Elective	3 4 1 3 1 3
	Total Hours	15	Total Hours	15
Year 3	KINE 2960 Growth, Devel & Motor Lng KINE 3520 Applied Exercise Physiology KINE 3530 Exercise Physiology Lab PHYS 2070 General Physics I PSY 2200, 2510 or 2700	4 3 1 5 3	COMM 3840 or 1010 PHYS 2080 Physics II KINE 4620 Therapeutic Kinesiology KINE 2580 Pathophysiology	3-4 5 3 3
	Total Hours	16	Total Hours	14-15
Year 4	KINE 4540 Applied Biomechanics KINE 4550 Applied Biomechanics Lab RESM 4100 Educational Statistics HEAL 4560 Health Problems of Aging KINE 3240 Conc of EXSC Fit and Heal Strat KINE 3200 Advanced Human Anatomy	3 1 3 3 3 3	HEAL 4700 Nutrition Science KINE 4640 Neuro and Patho of Rehab KINE 3950 Research Design in EXSC Multicultural Elective Pre-PT Elective	3 3 3 3 3

	Total Hours	16	Total Hours	15
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Pre-PT Electives include: KINE 3730 Fitness Asses & Programming, KINE 4850 Clinical Exercise Test and Prog, KINE 4860 Clin Ex

	Fall Semester		Spring Semester	
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Test and Prog Lab, KINE 4940 Pre-PT Internship, KINE 4990 Independent Study in Exer Sci, or other by approval of an adviser.  
General Electives as needed to meet the 124 credit hour graduation requirement.

## Pre-Physician Assistant

Students planning to enter a physician assistant program after graduation should identify the programs to which they may apply. The specific admission requirements for those programs should be determined. If the requirements are not already among the required courses, they should be included among the supporting electives.

## Bachelor of Science in Exercise Science – Pre-Physician Assistant Requirements

	Fall Semester		Spring Semester	
Year 1	BIOL 2150 Fund of Life Science I BIOL 2160 Fund of Life Science I Lab MATH 1340 Algebra & Trigonometry KINE 1700 Intro to Exercise Science HHS 1000 Freshman Orientation ENGL 1110 College Composition I  Total Hours	4 1 4 2 1 3	BIOL 2170 Fund of Life Science II BIOL 2180 Fund of Life Science II Lab PSY 1010 Principles of Psychology HEAL 1800 Medical Terminology HEAL 1500 First Aid ENGL 2950 Scientific Tech Report Writing  Total Hours	4 1 3 3 2 3
Year 2	CHEM 1230 General Chemistry I CHEM 1280 General Chemistry I Lab KINE 2510 Human Anatomy KINE 2520 Anatomy Lab KINE 2960 Growth, Devel & Motor Lng Humanities/Fine Arts Elective  Total Hours	4 1 3 1 4 3	CHEM 1240 General Chemistry II CHEM 1290 General Chemistry II Lab KINE 2530 Human Physiology KINE 2540 Human Physiology Lab KINE 3240 Conc of EXSC Fit and Heal Strat PSY 2510 Lifespan Developmental Psychology  Total Hours	4 1 3 1 3 3
Year 3	CHEM 2410 Organic Chemistry I CHEM 2460 Organic Chemistry I Lab BIOL 3030 Cell Biology Social Science Core Elective PHIL 3370 Medical Ethics KINE 2590 Microbiology and Infectious Dis  Total Hours	3 1 3 3 3 3	COMM 2840 Interpersonal Communication BIOL 4030 Microbiology BIOL 4040 Microbiology Lab Multicultural Elective KINE 3520 Applied Exercise Physiology KINE 3530 Applied Exercise Physiology Lab  Total Hours	3 3 1 3 3 1
Year 4	KINE 3850 Cardiac Dysrhythmias Interpret. KINE 3860 Cardiac Dysrhythmias Interpret Lab KINE 3200 Advanced Human Anatomy RESM 4100 Educational Statistics PHYS 2070 General Physics I  Total Hours	3 1 3 3 5	HEAL 4700 Nutritional Science KINE 4540 Applied Biomechanics KINE 4550 Applied Biomechanics Lab KINE 4850 Clinical EXSC Testing KINE 4860 Clinical EXSC Testing Lab Pre-PA Elective  Total Hours	3 3 1 3 1 4

## Pre-Medicine

Students planning to enter medical school after graduation should identify the programs to which they may apply. The specific admission requirements for those programs should be determined. If the requirements are not already among the required courses, they should be included among the supporting electives.

## Bachelor of Science in Exercise Science – Pre-Medicine Requirements

Year 1	BIOL 2150 Fund of Life Science I BIOL 2160 Fund of Life Science I Lab CHEM 1230 General Chemistry I CHEM 1280 General Chemistry I Lab MATH 1340 Algebra & Trigonometry HHS 1000 Freshman Orientation	4 1 4 1 5 1	BIOL 2170 Fund of Life Science II BIOL 2180 Fund of Life Science II Lab CHEM 1240 General Chemistry II CHEM 1290 General Chemistry II Lab ENGL 1110 College Composition I KINE 1700 Intro to Exercise Science	4 1 4 1 3 2
	Total Hours	16	Total Hours	15
Year 2	CHEM 2410 Organic Chemistry I CHEM 2460 Organic Chemistry I Lab KINE 2510 Human Anatomy KINE 2520 Anatomy Lab ENGL 2950 Scientific Tech Report Writing HEAL 1800 Medical Terminology PSY 1010 Principles of Psychology	3 1 3 1 3 3 3	CHEM 2420 Organic Chemistry II CHEM 2740 Organic Chemistry II Lab KINE 2530 Human Physiology KINE 2540 Human Physiology Lab KINE 2590 Microbiology and Infect Dis. PSY 2510 Lifespan Developmental Psychology	3 1 3 1 3 3
	Total Hours	17	Total Hours	14
Year 3	KINE 3200 Advanced Human Anatomy KINE 2580 Human Pathophys for Heal Care PHIL 3370 Medical Ethics PHYS 2070 General Physics I (FL or SSI) CHEM 3510 Biochemistry	3 3 3 5 3	KINE 3520 Applied Exercise Physiology KINE 3530 Exercise Physiology Lab KINE 3950 Research Design in EXSC (SP) RESM 4100 Educational Statistics PHYS 2080 General Physics II (SP or SSII)	3 1 3 3 5
	Total Hours	17	Total Hours	15
Year 4	KINE 4540 Applied Biomechanics KINE 4550 Applied Biomechanics Lab KINE 3850 Cardiac Dysrhythmia Interpret. KINE 3860 Cardiac Dysrhythmia Interpret. Lab Multicultural Elective Humanities/Fine Arts Elective	3 1 3 1 3 3	HEAL 4700 Nutritional Science KINE 4850 Clinical EXSC Testing KINE 4860 Clinical EXSC Testing Lab Social Science COMM 2840 Multicultural Elective	3 3 1 3 3 3
	Total Hours	14	Total Hours	16

\*Biology, Chemistry, and Math placement can alter this sequence\*

\*\*Please be aware that requirements for Medical Schools may vary. It is your responsibility to make sure you have completed all pre-requisites for the Medical programs you plan to apply to.\*\*

## Minor in Exercise Science

A minor in exercise science is offered by the department of kinesiology to provide students from other departments across the University with the opportunity to gain experience in this area. The minor requires 22 credits of course work, including required lecture and lab courses in human anatomy, physiology, exercise physiology, and biomechanics, as well as elective courses taken from a variety of areas within exercise science. Students interested in completing the minor in exercise science should contact the department's academic adviser for additional information.

Required – 18 hours

Required Course	Hours
KINE 1700 Introduction to Exercise Science	2
KINE 2510 Human Anatomy*	3
KINE 2520 Human Anatomy Lab*	1
KINE 2530 Human Physiology*	3
KINE 2540 Human Physiology Lab*	1
KINE 3520 Applied Exercise Physiology	3
KINE 3530 Applied Exercise Physiology Lab	1
KINE 4540 Applied Biomechanics	3
KINE 4550 Applied Biomechanics Lab	1

Electives – 6 hours

KINE 1110 Introduction to Athletic Training	2
KINE 2580 Human Pathophysiology for Health Care	3



KINE 2590 Microbiology and Infectious Diseases	3
KINE 3240 Concepts of Exercise, Fitness & Health	2
KINE 3680 Sport and Exercise Pharmacology	2
KINE 3850 Cardiac Dysrhythmia Interpretation	3
KINE 3860 Cardiac Dysrhythmia Interpretation Lab	1
KINE 4850 Clinical Exercise Testing	3
KINE 4860 Clinical Exercise Testing Lab	1
KINE 4900 Independent Study	1-3

\*Courses can be waived if the student has successfully completed comparable anatomy and physiology course work in another department within or outside The University of Toledo.

Students will be required to meet all of the prerequisites and co-requisites for the elective courses in the minor.

## Respiratory Care Program

Respiratory care is an allied health specialty. Respiratory care practitioners work with physicians in the treatment, management, control, diagnostic evaluation and care of patients with diseases and abnormalities associated with the cardiopulmonary system.

Respiratory therapists treat a diverse group of patients ranging from newborn and pediatric patients to adults and the elderly. Disease states or conditions often requiring care include asthma, emphysema, chronic obstructive pulmonary disease (COPD), pneumonia, cystic fibrosis, acute and infantile respiratory distress syndrome as well as conditions brought on by shock, trauma or post-operative surgical complications. Respiratory therapists function in many specialty areas in the hospital, such as newborn labor and delivery, neonatal and pediatric intensive care units, pulmonary function laboratory, sleep laboratory and adult intensive care units. The baccalaureate degree prepares respiratory therapists to deliver respiratory care in the hospital, home and alternative care sites.

The respiratory therapist with an earned baccalaureate is an advanced-level practitioner who is eligible to sit for the national board examination to become a Registered Respiratory Therapist (RRT) as well as take specialty examinations in the areas of Perinatal/pediatrics, Adult Critical Care, Sleep Disorders and and Pulmonary Function Technology.

For additional information please visit the Respiratory Care Website at, <http://www.utoledo.edu/healthsciences/depts/kinesiology/respiratorycare/index.html>

## Selective Admissions Requirements

Acceptance into the Professional Division of the Respiratory Care Program is limited due to the number of students who can be accommodated by the faculty and clinical facilities. Once admitted to the University, students must file a separate application for the respiratory care program with the program selective admissions committee through the Office of Student Services. Generally, this occurs during the second semester of the sophomore year. In order to be considered for admission to the Professional Division of the Respiratory Care Program the criteria listed below must be met.

- Complete the following courses (or their equivalent or higher) with a grade of C or better: ENGL 1110 College Composition I; ENGL 1130 College Composition II; HEAL 1800 Medical Terminology; CHEM 1120 Chemistry for Health Sciences; and KINE 2560 Anatomy & Physiology I, and KINE 2460 Anatomy & Physiology I Lab; and KINE 2570 Anatomy & Physiology II, and KINE 2470 Anatomy & Physiology II Lab, Math 1320 (College Algebra), and KINE 2590 (Microbiology and Infectious Diseases).
- Minimum cumulative GPA of 2.5
- In addition to cumulative GPA, the student's GPA in the courses fulfilling the math and science prerequisite course requirements (MATH 1320, CHEM 1120, KINE 2460, 2470, 2560, 2570, and 2590) will be evaluated separately from overall GPA.
- Admission to the Professional Division is based primarily upon the overall GPA and the GPA in math and science prerequisite classes.

## Requirements for Entry into the Respiratory Care Program

The Respiratory Care Program complies with the American with Disabilities Act (ADA). If a prospective student is unable to meet the required "Functional Abilities/Core Performance Standards," the student may consult with Program faculty and with an Accessibility Specialist from The University of Toledo Office of Accessibility to determine, on a case by case basis, if reasonable accommodations can be made that would permit the student to meet these "Functional Abilities/Core Performance Standards" and thus enter into the program. For a list of "Functional Abilities/Core Performance Standards" please refer to the following website: [http://www.utoledo.edu/healthsciences/depts/kinesiology/respiratorycare/pdfs/RESP\\_FunctionalAbilities\\_perf.pdf](http://www.utoledo.edu/healthsciences/depts/kinesiology/respiratorycare/pdfs/RESP_FunctionalAbilities_perf.pdf)

Other requirements for entry in the Program include completion of the following:

- Physical exam form and Fit for Duty Form
- Positive Hepatitis B antibody titer or evidence of completion of 3-shot Hepatitis B vaccination series

- Positive antibody titers for Rubella, Rubeola, Mumps, and Varicella. If titers are not positive, vaccination must be completed
- Tuberculosis 2-step skin test (yearly). If positive, must have negative chest x-ray
- Evidence of tetanus and diphtheria vaccination within last 10 years
- Annual multivalent flu vaccination

## Bachelor of Science in Respiratory Care

Students should follow and complete the degree requirements as displayed in the baccalaureate respiratory care program of study chart.

## Bachelor of Science in Respiratory Care – Degree Requirements

Below is a sample curriculum for the Bachelor of Science in Respiratory Care. Sample curriculum is subject to change. Please consult the department for up-to-date information.

	Fall Semester		Spring Semester		Summer Sem
Year 1	HHS 1000 College Orientation KINE 2560 Anatomy & Physiology I KINE 2460 Anatomy & Physiology I Lab MATH 1320 College Algebra HEAL 1800 Medical Terminology ENGL 1110 College Comp I	1 3 1 3 3 3	ENGL 1130 or higher College Comp II PHIL 1020 Critical Thinking KINE 2570 Anatomy & Physiology II KINE 2570 Anatomy & Physio II Lab CHEM 1120 Chemistry for Health Sci	3 3 3 1 4	
	Total Hours	14	Total Hours	14	
Year 2	KINE 2590 Microbiology & Inf Disease HEAL 3800 Death & Dying CMPT 1100 Computer Info Applications Professional Support Elective Multicultural Elective	3 3 3 3 3	HEAL 4700 Nutrition Science PHIL 3370 Medical Ethics PSY 1010 Intro to Psychology Professional Support Elective Humanities Elective	3 3 3 3 3	RCBS 3010Respiratory Fundamentals RCBS 3020 Respiratory Care Practice (Total Hours 8)
	Total Hours	15	Total Hours	15	
Year 3	RCBS 3110 Resp Care Therapeutics RCBS 3120 Resp Care Practice II RCBS 3130 Cardiopulmonary Diagnos	4 7 4	RCBS 3210 Resp Care Therapeutics II RCBS 3220 Resp Care Practice III RCBS 3230 Cardiopulmonary Diagn Social Science Elective	4 7 3 3	
	Total Hours	15	Total Hours	17	
Year 4	RCBS 4140 Integrated Clinical Prac I RCBS 4150 Neonatal/Pediatric Res. RCBS 4160 Clinical Assessment RCBS 4700 Res Analysis in Res Care RCBS 3300 Adv Cardiac Life Support	4 4 3 3 1	RCBS 4240 Integrated Clinical Prac II RCBS 4510 Resp Care in Alt. Sites RCBS 4800 Issues in Prof Practice RCBS 4810 Prep for Prof Practice Multicultural Elective	3 3 3 1 3	
	Total Hours	15	Total Hours	13	

Professional Support Electives – choose 2

HEAL 2500 Personal Health  
HEAL 2700 Community Health  
HEAL 3500 Environmental Health  
HEAL 4560 Health Problems of Aging  
HEAL 4800 Public Health Research & Statistics  
HIM 3200 Health Care Resources, Payers & Consumers

HCAR 4360 Quality Assurance in Health Care  
HCAR 4510 Medical and Legal Aspects of Health Care  
HCAR 4530 Problem Solving in the Health Care Environment  
HCAR 4550 Health Care Finance  
RCBS 4740 Polysomnography I  
RCBS 4760 Polysomnography II

## Respiratory Care Degree Completion Track (R.R.T. to B.S. R.T.)

The program is designed as a nontraditional track for individuals who have completed an associate's degree in respiratory care and have already earned the Registered Respiratory Therapist (RRT) credential granted by the National Board for Respiratory Care. The program includes upper division professional courses, which are contained in the traditional bachelor's program, but allows for student selection of an area of specialization to enhance professional growth. In addition, the professional support courses encompass many issues in health care and health education that are relevant to the practicing professional.

It is suggested that individuals interested in pursuing this option meet with the Program Director and an academic advisor in the Office of Student Services prior to applying to have prior coursework evaluated for transfer credit to the University of Toledo.

## Bachelor of Science Degree Requirements for Completion Track

To complete the Bachelor of Science degree in respiratory care, a student must take 124 semester hours and maintain a minimum GPA of 2.0 at the University of Toledo. A minimum of 64 hours must be taken at the 2000 to 4000 levels, with a minimum of 32 hours at the 3000 and 4000 levels.

Requirement	Hours
University Core Curriculum	27-30
Lower Division Professional Courses	30-35
Upper Division Professional Courses	13
• Required Professional Courses – 7	
• Area of Specialization – 6	
Professional Support Courses	22
General Electives	21-26
Minimum total hours	124
Required Courses – 7 hours	
RCBS 4160 Clinical Assessment	3
RCBS 3300 Advanced Cardiac Life Support	1
RCBS 4700 Research Analysis in Respiratory Care	3
Area of Specialization – Select a minimum of 6 hours	
RCBS 4150 Neonatal/Pediatric Respiratory Care	4
RCBS 3230 Cardiopulmonary Diagnostics II	3
RCBS 4510 Respiratory Care in Alternate Sites	3
RCBS 4800 Issues in Professional Practice	3
RCBS 4740 Polysommography I	3
RCBS 4760 Polysommography I	3
Professional Support Courses – 16 hours	
HCAR 4360 Quality Assurance in Health Care	3
HCAR 4530 Problem Solving in the Health Care Environ	4
HCAR 4510 Medical and Legal Aspects of Health Care	3
HCAR 4550 Health Care Finance	3
PHIL 3370 Medical Ethics	3
Professional Support Electives – 6 hours	
HEAL 3500 Environmental Health	3
HEAL 3800 Death and Dying	3
HEAL 4560 Health Problems of Aging	3
HEAL 4700 Nutritional Science	3
HEAL 4800 Public Health Research and Statistics	3
HIM 3200 Healthcare Resources, Payers & Consumers	3
General Electives	21-26

## Department of Rehabilitation Sciences

### Occupational Therapy Program

The program in occupational therapy is on the graduate level. Pre-occupational therapy programs are provided in the department of kinesiology and the department of health and recreation professions. In addition, students wishing to explore occupational therapy as a career option should enroll in

OCCT 2550 Purposeful Living: The Role of Occupational Therapy – 3 hours

### Physical Therapy Program

The program in physical therapy is provided on the graduate level. The pre-physical therapy program is provided in the department of kinesiology. Students are encouraged to review the admission requirement of the graduate physical therapy program while preparing as an undergraduate student.

## Speech-Language Pathology Program

The program provides course work in communication disorders which prepares the student for graduate work in speech-language pathology. The strengths of the program include supervised clinical experiences on the undergraduate level, undergraduate foundations in normal speech processes and language development and introductory courses in communication disorders. A master's degree is one of the requirements for licensure and certification as a speech-language pathologist.

### Requirements

The University of Toledo admits and matriculates qualified speech-language pathology students in accordance with the UT Policy of Nondiscrimination on the Basis of a Disability, The Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1973, The State of Ohio Revised Code, and other applicable statutes and regulations relating to equality of opportunity.

The Essential Functions provide information to allow a candidate to make an informed decision for application and are a guide to accommodation of students with disabilities. Academic adjustments can be made for disabilities in some instances, but a student must be able to perform the essential functions of a speech language pathologist independently either with or without reasonable accommodation.

Many physical, behavioral and social, and cognitive and intellectual abilities are necessary for satisfactory mastery of the academic and clinical curriculum and professional responsibilities in the field of speech-language pathology. Essential physical abilities include, but are not limited to, the ability to visually monitor patient responses and materials and to make judgments about speech and acoustic signals. Examples of behavioral and social attributes include maintaining emotional and mental health necessary to use one's intellectual abilities, to promptly complete responsibilities, and to develop appropriate relationships with faculty, supervisors, staff, peers, clients, parents or caregivers, and other professionals. Essential cognitive and intellectual abilities include, among others, demonstrating the mental capacity to learn and assimilate professional information, including the ability to comprehend oral and written professional literature and reports; ability to write discipline-specific papers and clinical reports in Standard American English; ability to speak Standard American English intelligibly and to discriminate correct production of and model Standard American English phonemes, vocabulary, grammatical forms, and prosodic patterns. We urge applicants to ask questions about the program's technical standards for clarification and to determine whether they can meet the requirements with or without reasonable accommodations. Such questions may be directed to the Program Director or the Academic Enrichment Center on campus.

Each student, while enrolled in the didactic and clinical portions of the speech-language pathology curriculum, is required to complete various immunizations: Positive MMR titers, Positive Varicella titer, Positive Hep B titer, Hep B Vaccination Series, Current Tdap, 2-step Initial TB test, and 1-step Annual TB test, as specified in the Student Health Form Packet in the Appendix of the Speech-Language Pathology Program Student Handbook.

For detailed information see: [http://www.utoledo.edu/healthsciences/depts/rehab\\_sciences/speech/formsandhandbook.html](http://www.utoledo.edu/healthsciences/depts/rehab_sciences/speech/formsandhandbook.html)

**Students are prohibited to engage in laboratory activities or to attend clinical facilities if this information is not on file for the current year.** It should also be noted that some clinical education sites have **additional health requirements** (flu shots, drug screens, etc.). All expenses incurred in obtaining a physical, necessary laboratory tests, immunizations and additional health requirements are the responsibility of the student.

All speech-language pathology students are required to complete both an Ohio BCI&I check and an FBI criminal background check prior to participating in any clinical experiences.

### Bachelor of Science in Speech-Language Pathology Degree Requirements

Below is a sample curriculum for the Bachelor of Science in the speech-language pathology program. Sample curriculum is subject to change. Please consult the department for up-to-date information. All course pre-requisites must be met. Other than KINE 2460 and 2560, non-SLP courses may be taken in a different order than shown.

	Fall Semester		Spring Semester	
Year 1	MATH 2600 PSY 1010 Principles of Psychology SOC 1010 Intro to Sociology ENGL 1110 College Composition I HHS 1000 Freshman Orientation SLP 2400 Intro to Communication Disorders	3 3 3 3 1 3	Humanities/Fine Arts Elective KINE 2560 Anatomy & Physiology I KINE Anatomy & Physiology I Lab ENGL 2960 or Comp II HEAL 1800, 2500, 4560, COUN 2220, or 4080 General Elective	3 3 1 3 3 3
	Total Hours	16	Total Hours	16
Year 2	SLP 3020 Anat & Phy of Comm Mechanism SLP 3030 Normal Language Acquisition HEAL 1500 First Aid General Electives	4 3 2 6	SLP 3010 Phonetics SLP 3140 Analyzing Language Humanities/Fine Arts Elective General Elective	4 4 3 6
	Total Hours	15	Total Hours	17

Year 3	SLP 3150 Speech Science SLP 3170 Hearing Science SLP 3200 Artic & Phonology Multicultural Elective General Elective	3 2 4 3 3	SLP 3300 Artic & Phonology SLP 3800 Methods for Clinical Intervention (requires $\geq 3.25$ GPA) HEAL 1800, 2500, 4560, COUN 2220 or 4080 Multicultural or General Elective SLP 3400 Audiology	4 3 3 3 3
	Total Hours	15	Total Hours	13
Year 4	SLP 4000 Beginning Clinical Practicum SPED 2040 Perspectives General Elective	2 3 12	SLP 4350 Concomitant Disorders SPED 4110 or 4120 Mod/Intensive General Electives	3 3 9
	Total Hours	17	Total Hours	15
Total credits must equal or exceed				124

NOTE: Students must earn a "C" or higher grade in all major courses as well as those courses that meet ASHA and Ohio Department of Education requirements. See program check sheet provided by the advisor for additional information. Graduate program requirements may be higher.

## Transfer Students in Speech-Language Pathology

Below is a sample curriculum for the Bachelor of Science in the speech-language pathology program for transfer students. Sample curriculum is subject to change. Please consult the department for up-to-date information. All course pre-requisites must be met.

	Fall Semester		Spring Semester	
Year 1	SLP 2400 Intro to Communication Disorders SLP 3020 Anat & Phy of Comm Mechanism SLP 3030 Normal Language Acquisition	3 4 3	SLP 3140 Analyzing Language SLP 3150 Speech Science	4 3
Year 2	SLP 3010 Clinical Phonetics SLP 3300 Language Disorders SLP 3170 Hearing Science	4 2 4	SPL 3200 Articulation & Phonology SLP 3800 Methods for Clinical Intervention (requires $\geq 3.25$ GPA)	4 3
Year 3	SLP 3400 Audiology SLP 4000 Beginning Clinical Practicum SPED 2040 Perspectives	3 2 3	SLP 4350 Concomitant Disorders SPED 4110 or 4120 Mod/Intensive	3 3
Total credits must equal or exceed				124

NOTE: Students must earn a "C" or higher grade in all major courses as well as those courses that meet ASHA and Ohio Department of Education requirements. To get into the clinical sequence of courses and graduate school require a higher GPA (SLP 3800  $\geq 3.25$  GPA).

## College of Health Sciences

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#### **Emeritus Faculty**

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**Barbaranne J. Benjamin**, 1986, professor emeritus  
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**Lee Ellis**, 1989, professor emeritus  
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