

Oakland University School of Health Sciences Undergraduate Programs

Health Sciences

New in 2007:

- New Applied Health Sciences major for OTA's, PTA's, respiratory therapists, medical assistants, surgical technologists & health information technologists
- Nutrition and Health minor added
- Medical Laboratory Sciences adds Radiologic Technology specialization
- Integrative Holistic Medicine concentration added in Health Sciences major

A Bachelor of Science in Health Sciences degree combines a broad spectrum of liberal arts, basic sciences, social sciences and health sciences course requirements and electives for students who desire a generalized health sciences academic credential. In addition, students choose one of five academic concentration areas to obtain greater exposure to a specific health discipline. These concentration areas include Exercise Science, Pre-Pharmacy, Pre-Physical Therapy, Pre-Health Professional studies (pre-med), and Integrative Holistic Medicine. Students completing the **Exercise Science concentration** area obtain all the academic course prerequisites necessary for consideration for admission to the Master of Science in Exercise Science program. The **Pre-Physical Therapy concentration** area prepares students for the traditional application requirements for the Oakland University Doctor of Physical Therapy (DPT) Program. The **Pre-Health Professional concentration** area incorporates basic science courses to prepare students for the traditional application requirements for medical, dental, optometric, physician assistant and other professional schools. The **Pre-Pharmacy concentration** area prepares students for the application to the Doctor of Pharmacy program at Wayne State University. Finally, the **Integrative Holistic Medicine concentration** prepares students for many traditional and non-traditional programs including the OU Graduate Certificate in Complementary Medicine & Wellness.



*The School of Health Sciences-
You can go anywhere from here!*

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Applied Health Sciences

The Bachelor of Science in Applied Health Sciences degree prepares students for a rewarding career in the medical field. Students in this major will choose one of the six following concentrations: **Respiratory Therapy, Health Information Technology, Surgical Technology, Physical Therapist Assistant Studies, Medical Assistant Studies, and Occupational Therapy Assistant Studies.** Students complete core health curriculum and general education courses at Oakland University and complete the specialized concentration courses at Macomb Community College. **Acceptance into the concentration programs may be competitive and are based on grade point average and placement test scores.** The application process for each of the concentrations may be unique. Students are advised to read carefully about their chosen concentration. Freshmen students can take advantage of dual enrollment status through the M2O program, taking core health courses at OU and specialized concentration courses at MCC simultaneously. Students near completion of their Associate of Applied Science degree in one of these six concentrations at MCC can easily transfer to OU to complete their Bachelor of Science degree in Applied Health Sciences. Likewise, graduates of the MCC Associate of Applied Science degree in one of these six concentrations can transfer up to 66 credits of their degree to the Bachelor of Science in Applied Health Sciences degree at OU.

Medical Laboratory Sciences

The Medical Laboratory Sciences program is designed to prepare students for professional opportunities in a variety of settings. Graduates may find employment in hospital or commercial clinical laboratories, research laboratories or public health facilities. Positions within biomedical corporations, including research and development, quality assurance and sales or service may also be prospective sources of employment. Furthermore, because it meets basic academic requirements, the medical laboratory sciences curriculum provides excellent preparation for entry into post-baccalaureate professional programs including medicine, dentistry and osteopathy. The medical laboratory program at Oakland University addresses six specializations:



Did you know that Medical Laboratory Sciences is an excellent major for pre-med students?

1. **Clinical Laboratory Science:** (formerly medical technology): Clinical laboratory scientists perform diagnostic tests on all types of body tissues and fluids, from blood to urine samples, that afford important information to determine the presence, extent or absence of disease and provide data to evaluate the effectiveness of treatment.
2. **Cytotechnology:** Cytotechnologists are trained medical laboratory scientists who detect disease by light microscopic examination of cell samples from all areas of the human body. They are able to detect abnormal cells and provide preliminary diagnostic information.
3. **Histotechnology:** Histotechnologists perform a variety of diagnostic and research procedures in the anatomic sciences. During the clinical internship students will learn histologic techniques that involve processing, sectioning, and staining of tissue specimens that have been removed from humans or animals by biopsy, surgical procedures or autopsy.
4. **Nuclear Medicine Technology:** Nuclear medicine technologists utilize small amounts of radioactive materials for diagnosis, therapy and research. Diagnosis can involve organ imaging using gamma counters to detect radioactive material administered to the patient or analysis of biologic specimens to detect levels of various substances. Therapeutic doses of radioactive materials are also given to patients to treat specific diseases.
5. **Radiation Therapy:** Radiation therapists use ionizing radiation to treat disease, especially cancer. Radiation therapists have the technical skills to plan, deliver and record a prescribed course of radiation. Their primary responsibility is to implement treatment programs prescribed by a radiation oncologist.
6. **Radiologic Technology (X-Ray):** Radiologic technologists conduct patient scans, evaluate images such as x-rays, or computer images. They explain the procedure to the patient and monitor and observe patients throughout the procedure.



*Excellent Career Preparation:
Our Majors Work!*

Students may be admitted as Pre-Medical Laboratory Sciences majors directly from high school or by transfer from other colleges or universities. With the exception of Clinical Laboratory Science, students earning the Medical Laboratory Sciences degree will complete a hospital based clinical specialization internship program. **Acceptance into the internship programs is competitive and is based on grade point average, personal interview and letters of recommendation.** The application process for each of the specializations is unique. Students are advised to read carefully about their chosen specialization.

Occupational Safety and Health

Occupational Safety and Health is a specified branch of the health professions focusing on the workplace environment and on the behaviors of workers. Protecting America's workers and the general public from injury and illness in today's age of technological advancement has become one of the most challenging and rewarding professions available. Occupational safety and health professionals strive to identify, evaluate and eliminate or control hazards which expose people, property or the environment to danger or harm.

This professional is concerned with prevention of injuries or occupational diseases that may occur with the interaction between the worker and the chemical, physical, biological, ergonomic, mechanical, electrical and other forces in the work environment. Graduates of the Bachelor of Science in Occupational Safety and Health at OU will find employment opportunities within a wide variety of occupations to include: health care facilities; local, state, and federal government; and labor organizations. This degree also prepares students for the Master of Science in Safety Management at Oakland University.



Help prevent harm to people, property and the environment

Wellness, Health Promotion and Injury Prevention

The Wellness, Health Promotion and Injury Prevention program prepares graduates to address growing societal needs for specialists in diverse allied health fields. Their professional skills are utilized in health enhancement, disease prevention, injury prevention, health education/promotion, health and fitness, corporate and worksite wellness, as well as human resource practice and management.

The curriculum is designed to provide students with a broad-based introduction to this emerging multi-disciplinary field of study, but in addition, provides a specialization within one of eight focus areas and concludes with an internship and senior culminating experience.

1. The **additional major in Psychology** focuses on health psychology, behavior change and stress management.
2. The **General Health Promotion focus** is concerned with behavioral change, coping and motivation. Students in this focus area can complete a minor in Psychology.
3. The **Health Promotion Intervention focus** prepares students for work in managed care and human resource development. Students in this focus area can complete the Human Resource Development minor in Training and Development.
4. The **Complementary Medicine focus** prepares students to consider various healing modalities, healing traditions and psychosocial applications.
5. The **Injury Prevention focus** trains students for jobs concerned with occupational and ergonomic applications.
6. The **Exercise Science focus** trains students in exercise physiology, kinesiology, and physical activity across the lifespan. This focus allows students to obtain all the academic course prerequisites necessary for consideration for admission to the Master of Science in Exercise Science program.
7. The **Pre-Health Professional focus** allows students to complete 32 credit hours of pre-approved coursework in preparation for entry to a recognized health profession program. Students are advised to contact the professional school that they are interested in attending to obtain program admission information before designing this focus course of study.
8. The **Nutrition and Health focus** area enables the student to complete a 22 credit minor in Nutrition and Health. This area is good preparation for further study in the areas of nutrition and dietetics and will make an employee more marketable to possess skills to assist registered dietitians.



Improve the Quality of Life for Millions

Minors

The School of Health Sciences offers four minors which are open to students in any undergraduate academic program at Oakland University. These minors include:

- Exercise Science
- Nutrition and Health
- Occupational Safety and Health
- Wellness, Health Promotion and Injury Prevention

Still need more information? Contact a School of Health Sciences Adviser!

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FIND MORE INFORMATION ON OUR WEBSITE: WWW.OAKLAND.EDU/SHS/ADVISING

**JOIN THE SCHOOL OF HEALTH SCIENCES ADVISING GROUP ON FACEBOOK TO KEEP UP
ON ALL THE LATEST HAPPENINGS IN THE SCHOOL OF HEALTH SCIENCES**