



HEALTH SCIENCES

OUR PROMISE TO YOU

The health sciences major at Wesleyan is designed for students who seek to pursue a health profession, but have not chosen a specific area of study. You will complete prerequisites for admission to professional programs such as the ones listed to the right in the Careers list.

EXCEPTIONAL PREPARATION

You will learn about the technological side of medicine as well as the human side, as you gain practical experience with our partner organizations. You will receive personalized guidance from a faculty advisor, who will provide guidance in determining appropriate curriculum, prepare you to take the appropriate tests and furnish necessary letters of recommendation.

GET INVOLVED

The Pre-Professional Society is for science majors with career goals in medicine, veterinary, optometry, nursing or pharmacology. Monthly meetings provide opportunities to speak with physicians and alumni.

We also encourage our students to engage in summer research programs. Our students have participated in research activities at universities across the South and Midwest and at Oak Ridge National Laboratories.

SCHOLARSHIPS & ASSISTANTSHIPS

Many health sciences majors at Kentucky Wesleyan receive academic scholarships. Some also serve as assistants in laboratories, classrooms and offices. Assistantships provide valuable learning experiences for students and contribute to the student's tuition.



KENTUCKY
WESLEYAN
COLLEGE
—1858—

CAREERS

- Behavioral medicine
- Exercise science
- Health physics
- Health psychology
- Nursing (BSN)
- Occupational therapy
- Optometry
- Pharmacy
- Physical therapy
- Physician assistant

Contact Admissions:
270-852-3120
admissions@kwc.edu

find yourself

Courses Offered

Kentucky Wesleyan education is all about preparing you to pursue a productive career and a full, meaningful life. Each major offers unique courses designed to get you ready for a professional career in that field of study. Below, learn more about some of the courses you can expect to take with this major:

BIO 216: General Biology Laboratory II 1 Semester Credit Hour

Required corequisite course to BIO 226, this laboratory experience provides the opportunity for students to practice laboratory techniques; including safety precautions. Students will use experimental techniques to study membrane function, and enzyme activity. Students will use observation and problem solving skills to study mitosis, meiosis, DNA, Mendelian genetics and population genetics.

BIO 223: Human Anatomy and Physiology I 4 Semester Credit Hours

The first semester of this one year course is an introduction to the biochemical and cellular basis of structure and function in organ systems of the human body. Mechanisms of health and disease, as well as therapeutics, are examined. The laboratory portion of the class is coordinated to provide an experiential interface with concepts discussed in lecture using anatomical models, dissection, microscopy, and electrophysiological measurement to corroborate observations using scientific method.

BIO 224: Human Anatomy and Physiology II 4 Semester Credit Hours

This course continues the detailed study of structure and physiological activities of the human body.

BIO 226: General Biology II 3 Semester Credit Hours

A study of the fundamental mechanisms driving living systems. Students should receive a firm foundation in the principles of biology upon which they can build. Students should achieve a novice knowledge level in essential cell functions (e.g. membrane functions, photosynthesis, respiration, DNA replication, protein synthesis, mitosis and meiosis).

CHEM 121: General Chemistry Laboratory I 2 Semester Credit Hours

Two hours of recitation and one 3-hour laboratory per week.

CHEM 122: General Chemistry Laboratory II 2 Semester Credit Hours

Two hours of recitation and one 3-hour laboratory per week.

CHEM 131: General Chemistry I 3 Semester Credit Hours

A systematic approach to the basic fundamental concepts and principles of chemistry including atomic and molecular structure, stoichiometry, chemical thermodynamics and physical states of matter. Designed for those students whose major concentrations are in the fields of science or mathematics.

Scan me to discover more information about your major and the others we offer!



CHEM 132: General Chemistry II 3 Semester Credit Hours

A continuation of Chemistry 131 which emphasizes additional concepts of chemistry including chemistry of solutions, chemical kinetics, chemical thermodynamics, chemical equilibrium and electro-chemistry and a systematic approach to the properties of the elements and their compounds.

HS 100-300: Externship 1 hour

Community service in health-related community education programs.

MATH 103: College Algebra and Trigonometry 4 Semester Credit Hours

Polynomials and rational functions, equations and systems of equations, logs and exponentials, right triangle trigonometry and then trig functions and identities in general.

MATH 104: Probability and Statistics 4 Semester Credit Hours

An introduction to probability and statistics with applications. Intended for students of business, life sciences and social sciences.

PSY 202: Statistics in the Behavioral Sciences 3 Semester Credit Hours

A course to familiarize students in the behavioral sciences with descriptive and inferential statistics. Statistics will be studied within the context of research in criminal justice, education, psychology and sociology.

PSY 322: Health Psychology 3 Semester Credit Hours

This course focuses on psychological influences on human health. Cognitive, behavioral, social and cultural influences are explored, along with the role of the nervous system and endocrine system in health. The course will also address how psychologists trained in health psychology work to improve patient health by changing unhealthy thoughts and habits. The topics covered will include stress, pain, drug use, exercise, nutrition and doctor-patient interactions.

PEH 435: Health Ethics & Society 3 Semester Credit Hours

An inquiry into ethics and morality as these apply to contemporary issues in health and medicine. Ethical and logical reasoning is emphasized through study of relevant literature, perspective-taking, and discussion and debate. Euthanasia, organ transplantation, genetic engineering, family violence, birth technologies, and rising health care costs are some of the issues examined.