2022-23
ACADEMIC CATALOG



Midway University Course Catalog - Health Science

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Health Science

Health Science - Bachelor of Science in Health Science

Type: Major

The Health Sciences program at Midway University is designed for students who intend to attend graduate school in one of the allied health professions. The program provides students with a strong foundation in biology, chemistry, mathematics, and physics as well as general education requirements.

Student Learning Outcomes of Program

- Analyze the scientific, environmental, and behavioral factors affecting human health.
- Explain the health system, its processes and issues, and the factors that affect it: cultural, legal, behavioral, financial and others.
- Demonstrate scientific knowledge of the major challenges impacting human health.
- Utilize quantitative and qualitative data to analyze and assess public health issues in an ethical manner.
- Provide examples and explanations of the connection among all the factors – scientific and environmental that impact human health.
- Demonstrate knowledge of the concepts and principles of the basic science, the application of the scientific method, and the interpretation of data from scientific literature to conduct research.

- Utilize laboratory procedures independently and analyze the results.
- Apply scientific concepts to experiments and to disseminate the conclusions accurately and clearly.

Requirements

General Education Hours - 40

Elective Hours - 26

Total Hours to Complete - 120

Major Course Requirements

Health Science - General Biology I - 3 hours

Health Science - General Biology I Laboratory - 1 hour

Health Science - General Biology II - 3 hours

Health Science - General Biology II Laboratory - 1 hour

Health Science - Anatomy and Physiology I - 3 hours

Health Science - Anatomy and Physiology I Laboratory - 1 hour

Health Science - Anatomy and Physiology II - 3 hours

Health Science - Anatomy and Physiology II Laboratory - 1 hour

Health Science - Medical Vocabulary - 2 hours

Health Science - Microbiology - 3 hours

Health Science - Microbiology Laboratory - 1 hour

Health Science - General Chemistry I - 3 hours

Health Science - General Chemistry Laboratory I - 1 hour

Health Science - Probability and Statistics - 3 hours

Health Science - Introduction to Health Services - 3 hours

Health Science - Introduction to Public Health - 3 hours

Health Science - U.S. Health Systems and Policy - 3 hours

Health Science - General Chemistry II - 3 hours

Health Science - General Chemistry Laboratory II - 1 hour

Health Science - General Psychology - 3 hours

Health Science - Environment and Health - 3 hours

Choose at least 13 additional hours in Major Electives (Courses in the major elective require a C or better)

Health Science - Cell Biology - 3 hours

Health Science - Genetics and Molecular Biology - 3 hours
Health Science - Immunology - 3 hours
Health Science - Immunology Laboratory - 1 hour
Health Science - Genetics and Molecular Biology Laboratory - 1 hour
Health Science - Biochemistry - 3 hours
Health Science - Biochemistry Laboratory - 1 hour
Health Science - Organic Chemistry I - 3 hours
Health Science - Organic Chemistry Laboratory I - 1 hour
Health Science - Organic Chemistry II - 3 hours
Health Science - Organic Chemistry Laboratory II - 1 hour
Health Science - Health and Medical Care Delivery Systems - 3 hours
Health Science - Health Care Policy - 3 hours
Health Science - Social Determinants of Health - 3 hours
Health Science - Epidemiology in Public Health - 3 hours
Health Science - Behavior and Health - 3 hours
Health Science - Physics I - 3 hours
Health Science - Physics Laboratory I - 1 hour
Health Science - Physics II - 3 hours
Health Science - Physics Laboratory II - 1 hour
Health Science - Social Psychology - 3 hours
Health Science - Physiological Psychology - 3 hours
Health Science - Abnormal Psychology - 3 hours

Choose From the Following Courses

Health Science - Ethics - 3 hours
Health Science - Ethical Issues in Science - 3 hours

Health Science

Courses

HSC-100 - Introduction to Health Services

This course will introduce students to the various roles, educational requirements, and credentialing and licensing requirements of professionals in the healthcare system. Exploration of the history of the healthcare system, the current healthcare system, and the role of regulation and governmental issues

in healthcare will be examined. The importance of professional behaviors in the healthcare disciplines will be emphasized.

Upon completion, students will be able to:

- Identify the roles of various healthcare professionals.
- Outline state and national credentialing and licensing requirements for various healthcare professionals.
- Discuss the regulation and governmental issues impacting the current healthcare system.
- Discuss the importance of professional behaviors in the healthcare system.

Grade Basis: L
Credit hours: 3.0
Lecture hours: 3.0

HSC 420 - Health Science Internship

This course consists of didactic instruction, discussions, and 90 practicum hours. The internship experience draws on students' knowledge in the core areas of health sciences and additional concentration coursework. Students will integrate the skills and knowledge gained throughout the program and learn critical elements specific to the internship experience in an approved clinical setting.

Upon completion, students will be able to:

- Demonstrate professional behaviors while functioning within the role of a student intern.
- Display therapeutic and professional communication techniques while interacting with other members of the healthcare team.
- Examine current healthcare trends and issues encountered in the practicum setting.
- Reflect upon personal and professional growth and preparedness to enter next phase of career.
- Develop and present a project integrating skills and knowledge gained throughout the program and internship.

Grade Basis: LP
Credit hours: 3.0

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