

HEALTH SCIENCE - BIOLOGY CONCENTRATION CURRICULUM

The College of Science at Great Lakes University offers a Bachelor of Science in Health Science Degree, Biology Concentration. Biology is the science and study of life. The biology concentration assists students in developing a base and working knowledge of key ideas, works, persons, events, and issues in the discipline of biology with an emphasis on human health or genetics/biotechnology for traditional majors. Students are provided a thorough background in the basic concepts, theories, experimental findings and the application of biology through the classroom setting, research projects, and computer/laboratory related experiences. More specifically, students are trained in scientific methods and different theoretical perspectives in a range of courses that include physiological psychology, general biology, biotechnology, genetics, bio-organic chemistry, microbiology and through selected biological science electives.

The faculty has chosen academic requirements for the undergraduate biology concentration that empower students who plan to pursue graduate training in biology, professional schools (i.e. medical, dental, etc...) and students who are seeking a liberal arts degree focusing on biotechnology. Students who choose to pursue graduate education are provided the necessary foundation for a career in biotechnology, genetics, environmental health, or other specializations in the field of biology.

Learning Goals for the Health Science, Biology Concentration Curriculum are:

1. To understand the process of scientific inquiry in the study of Health Science in Biology.
2. To understand the principles of the life sciences.
3. To understand the interplay between the theory and application of Health Science in Biology.
4. To acquire competence in basic statistical analysis, research methodologies and interpretation of data.
5. To acquire an entry-level competence in the application of Health Science within the field of contemporary human biology.

Requirements:

1. A minimum of 180 total credits to earn a Bachelor of Science in Health Science.
2. Meet all General Education Requirements- (incl. MAT 102, STA 200, SCI 201, and CSC 200 or approved equivalents).
3. Meet Major Requirements as defined below.

Students must complete 90 credits to fulfill major requirements according to the following guidelines:

4. Complete the following required courses =78 credits

BIO 101 General Biology I and Lab	6
BIO 102 General Biology II and Lab	6
BIO 200/201/202 Human Anatomy and Physiology	12
BIO 300/301 General Genetics	8
BIO 302 Cell Biology	4
BIO 400 Microbiology	4
BIO 405 Agricultural/Plant Genetics	4
BIO 410 Emerging Issues in Biology/Science	4
BIO 480 Biotechnology	8
CHM 200 Chemistry I and Lab	6
CHM 201 Chemistry II	4
CHM 202 Chemistry III	4
CHM 300/301/302 Bio-organic Chemistry	12
PSY 318 Physiological Psychology	4
SCI 200 General Physics	4