

Biology

MAJOR @ VITERBO UNIVERSITY



10/10

Overview

The biology curriculum prepares students for careers in modern science or medical-related fields. The core sequence provides students with a broad overview of biological science, including the diversity of organisms, cellular and molecular biology, and ecology and evolution. The core curriculum is followed by advanced instruction in each of the above areas and students have several opportunities for hands-on experience with modern equipment and research techniques.

Why Viterbo?

The Viterbo University biology program:

- offers a curriculum with a broad foundation in biology ranging from molecules to ecosystems.
- supports professional and pre-professional programs.
- features state-of-the-art science and laboratory facilities.
- includes opportunities to engage in mentored research with faculty.
- develops skills such as analysis, problem solving, communication, decision-making, Internet research, and working both independently and in a research-team environment.
- offers strong academic advising within the natural sciences division.

Career Options *(some require advanced degrees)*

- college professor
- fishery biologist
- naturalist
- teacher
- dentist
- forester
- physician
- wildlife biologist
- epidemiologist
- horticulturist
- research technician

Features of the Curriculum

- biological concepts
- introductory and directed research
- ecology and evolution
- molecular and cellular biology
- general and organic chemistry

For More Information www.viterbo.edu/biology

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General education requirements

See the general education section of the catalog.

Biology core

- General Biology 1 and 2
- Molecular and Cellular Basis of Life
- Ecology and Evolution
- Independent Research Series (5–8 credits)

Biology requirements

16 credits from upper division biology courses including one course from each of the following areas:

- Organismal biology – Plant Biology, Human Physiology, or Human Anatomy
- Cell and molecular biology - Biochemistry and Biochemical Techniques, General Microbiology, or Molecular Genetics
- Ecology and evolutionary biology – Limnology, Conservation Biology, or Animal Behavior

Support courses

Chemistry, Statistics, Pre-Calculus, Physics, Environmental Studies (credits vary)
Professional schools may require additional credits.

Biology, Early Adolescence through Adolescence, Education Major (Bachelor of Science)

Students intending to teach biology at the middle/secondary level must complete all of the above requirements for the biology major (Bachelor of Science) and the below education requirements. Education majors are required to take specific general education courses to satisfy DPI licensure requirements.

Education Requirements

- Introduction to Education
- Educational Psychology
- Professional Issues
- Technology Enhanced Education
- Middle/Secondary Methods Content Literacy
- Middle Level Theory and practice
- Science methods course
- Student teaching sequence completed in the final semester

Bachelor of Science or Bachelor of Arts also offered.

This is an unofficial course outline. For complete degree requirements, refer to the course catalog.