

# Biology ACE

8 Modules + 1 Module for Final Exam / Credit-by-Course / Credits 3

## Course Description:

This introductory college-level Biology course tests the student's knowledge and understanding of fundamental biology topics, including the scientific method, cell structure and function, genetics, and evolution. Other key biology topics, such as biological chemistry, cellular metabolism, molecular biology, comparative animal biology, introductory microbiology, plant anatomy and physiology, and general principles of ecology will be introduced as well.

## Course Objectives:

After completing this course, you will be able to:

- Recognize, interpret, and apply major biological topics, including those in cellular biology, genetics, ecology, and evolution.
- Differentiate the steps of the scientific method and show how it is applied in biological sciences.
- Interpret historical events and experiments that contributed to our current understanding of biological sciences.
- Identify and define key facts, principles, processes, and theories in biology.
- Distinguish the interrelationships between different subjects within biology, including cellular biology, chemistry, molecular biology, microbiology, botany, comparative animal biology, genetics, evolution, and ecology.

## E-Textbook:

Title: McGraw Hill Textbook: Biology, 14th Edition (2024 Release), By Sylvia S. Mader and Michael Windelspecht

## Open Educational Resources (OER's)

If you are struggling with a term or concept, you can utilize the links below to search for the concept or term to find additional resources and explanations.

[Link Removed]

Modern States Education Alliance (<https://modernstates.org/course/biology/>)

Hippocampus: Biology (<http://www.hippocampus.org/Biology>)

The Biology Project (<http://www.biology.arizona.edu/>)

AP Biology (<https://www.edx.org/course/apr-biology-part-1-cell-ricex-advbio-1x-0#>)

Khan Academy (<https://www.khanacademy.org/science/biology>)

The Crash Course (<https://thecrashcourse.com/>)

## Closed Captioning

Lecture videos and extra resource videos have automatic closed captioning. These captions are generated by computer algorithms. To utilize closed captioning, you can click on the CC button at the bottom of a video.

## Accommodating Student Disabilities

Gateway Education is committed to the belief that every individual should have an equal opportunity in education. Gateway Education seeks to assure access by providing accommodations to individuals with a disability as defined under the Americans with Disabilities Act of 1990 (ADA) and the ADA Amendments Act of 2008 (ADAAA). Accommodation includes, but is not limited to: aids or modification to courses, materials, or testing; and other services that allow better access by individuals with disabilities.

Individuals requesting accommodation should submit a request in writing or in an alternative format appropriate for their limitations. The request should include documentation of the disability, including information with recommendations of appropriate accommodation. Once eligibility has been established, accommodations must be requested on a course-by-course basis.

Requests can be sent to the student services department at [help@gatewayeducation.com](mailto:help@gatewayeducation.com)