

Biology (403)

ASSOCIATE OF SCIENCE

About Our Program

This program is intended to provide the first two years of a 4-year baccalaureate program. Students who major in biology investigate the science of life including cell biology, molecular biology, evolution, ecology, and genetics. Study organisms include viruses, bacteria, plants, animals, and fungi.

Program Outcomes

- Students should be able to understand and employ aspects of scientific methodologies.
- Students should practice proper lab technique in compliance with relevant safety standards.
- Students should understand the fundamental uncertainties in experimental measurements inherent in different laboratory techniques and instrumentation.
- Students should be able to analyze data sets and communicate information in a clear and organized manner with presentations and properly cited written reports.
- Students should utilize peer-reviewed scientific literature effectively.
- Students should be able to work with peers in a team setting.
- Students should be able to relate contemporary societal and global issues to the physical and life sciences.

Nature of Work and Employment

The four most common jobs people have one year after completion of their Bachelor's degree in this major are biological technician, biological scientist, health technician, and secondary teacher.

Special Considerations

Students considering this major should have a strong interest in nature, science, animals, plants, cells, environment, and people. This career area requires the ability to collect and analyze data. The listed coursework is a recommendation only. Students should check with a student advisor for HCC graduation requirements, and specific university requirements in this major. Students must meet with an advisor to ensure that the special requirements of the department and institution to which they plan to transfer are met.

Program Contacts

Call Highland at 815-235-6121 for the following program contacts:

- Dr. Brendan Dutmer, Dean, Natural Science and Mathematics
- Karla Giuffre, Biology Faculty
- Tony Grahame, Biology Faculty
- Juliet Moderow, Biology Faculty
- Alan Nowicki, Biology Faculty
- Beth Groshans, Student Advisor

Recommended Courses

Biology is a major that involves many specialties and students should adapt these recommendations to their goals with the assistance of faculty and advisors. Students must still meet all requirements for the Associate of Science degree (see page 58) in order to graduate from Highland Community College. For more information, please see your student advisor.

Biology

*	BIOL	208	Biology I: Cell & Molecular Biology	4
*	BIOL	209	Biology II: Biodiversity, Evolution & Ecology	4

Chemistry

*	CHEM	123	General College Chemistry I	5
*	CHEM	124	General College Chemistry II	5
*	CHEM	221	Organic Chemistry I	4
*	CHEM	222	Organic Chemistry II	4

Mathematics

*	MATH	134	Statistics	4
*	MATH	250	Analytic Geometry and Calculus I	5
*	MATH	255	Analytic Geometry and Calculus II	5

Physics

*	PHYS	141	Introductory Physics I	4
*	PHYS	142	Introductory Physics II	4
			-or-	
*	PHYS	143	General Physics I	4
*	PHYS	144	General Physics II	4

* Course has a prerequisite. See course description.