



# MOUNT MERCY UNIVERSITY BIOLOGY

## YOUR COURSES

### CORE REQUIREMENTS

Foundation of Biology & Scientific Inquiry I  
Foundation of Biology & Scientific Inquiry II  
Foundation of Biology & Scientific Inquiry III  
Biostatistics & Scientific Investigation I  
Genetics  
Ecology

#### Select one of the following:

General Chemistry I  
General Chemistry II  
Organic Chemistry I  
Basic Statistics\*\*\*

#### Select three of the following; two must be lab courses:

Pre-Calculus  
Mathematics Modeling  
Calculus I

\* If students earn a C or above (C- does not count), then they do not need to take a statistics course for this major.

\*\* One of which may be CH 302 Biochemistry and at least two major electives courses must be lab courses.

\*\*\* MA 135 Basic Statistics is not required if students complete BI 125 Foundations of Biology & Scientific Inquiry I, BI 125L Biostatistics and Scientific Investigation I, BI 126 Foundations of Biology & Scientific Inquiry II, and BI 127 Foundations of Biology & Scientific Inquiry III at Mount Mercy. With permission, PS 325 Statistics For Behavioral Sciences can be substituted for MA 135 Basic Statistics.

**NOTE:** Also available as a minor.

## OVERVIEW

Mount Mercy University's **biology** program deepens a student's appreciation for life sciences and increases concern for living things and the environments that we inhabit.

Biology majors receive an education that prepares them for medical careers, research, education, conservation and more. While core classes include courses such as Genetics, Ecology and General Chemistry, electives in Global Environmental Issues, Human Anatomy, Microbiology, Cell and Molecular Biology, and Animal Behavior give students opportunities to **tailor their degree** and **focus on their passion**.

Accomplished faculty help students develop the **intellectual expertise** and **technical skills** necessary to succeed in biology-related fields or go on to professional or graduate programs.

**Student success is Mount Mercy's top priority.** Individualized advising, small class size, and access to research and internship opportunities put Mount Mercy students ahead of other Eastern Iowa graduates.

## FAST FACTS

- Hands-on experience in the **Human Cadaver Lab**.
- Opportunities for professional research under a faculty mentor.
- Award-winning faculty guide students through **individual advising** and help prepare students to go on to graduate school or land impactful careers.

# 25+

— **MMU student clubs** —

including Science Club, encourage students to explore their individual interests.

# cutting-edge

— **state-of-the-art labs** —

Students take classes, study, and perform research in our cutting-edge, state-of-the-art labs



"A lot of small schools look very similar. They all say the same things—we have small class sizes, our professors are really great, and you can get involved—which is true of small schools, and especially Mount Mercy, but the one thing that I think makes Mount Mercy unique is the community. You can ask anyone here and they will say it's the best part about the school."

— **Aaron Lacy '14** *Emergency Medicine Resident*  
*Vanderbilt University Medical Center*  
*Nashville, TN*

# WHAT CAN I DO WITH A BIOLOGY DEGREE?

Graduates of Mount Mercy's biology program often **continue their education** and **earn advanced degrees** in dentistry, medicine, optometry, veterinary medicine, pharmacy, physician assistant, occupational therapy, chiropractic medicine, or physical therapy.

Others find jobs in conservation science, biomedical research, agriculture, toxicology, and forensic science, to name a few.

Graduates from our biology program have taken many different paths:

- University of Iowa Carver College of Medicine | [Iowa City, Iowa](#)
- USDA Natural Resources Conservation Service
- Henry Doorly Zoo and Aquarium | [Omaha, Nebraska](#)
- Scott County Public Service Authority | [Davenport, Iowa](#)
- Mercy Medical Center | [Cedar Rapids, Iowa](#)
- UnityPoint Health | [Cedar Rapids, Iowa](#)
- Integrated DNA Technologies
- Iowa Department of Natural Resources
- Cedar County Parks



## INTERNSHIPS & EXPERIENCE

As a biology major, you have the ability to gain **real-world experience** through **internships** or study abroad experiences outside of the classroom such as:

- Iowa Lakeside Laboratory
- Working in physical rehabilitation facilities
- Marine Biology stations on the East Coast and Bonaire
- Helping local physicians with research
- Developing public plans for governmental research

Our majors also have ample opportunities to practice classroom knowledge by conducting research alongside faculty mentors. Mount Mercy encourages students to **present findings** from their scientific research at professional meetings. Past research performed by students include:

- Characterization of protein interactions in herpesvirus
- Movements and habitat selection in ornate box turtles
- Predictors of test anxiety in undergraduate students
- Identification and analysis of novel proteins involved in bacterial cell division
- Identification of novel protein interactions to study the molecular mechanisms of glaucoma
- Efficacy of cancer treatments and diagnoses
- Innate response of skin cells to Ebolavirus
- Development of "green" chemistry laboratory experiments
- Isotopic analysis of late Neolithic-Bronze Age human remains in Spain and Portugal

## YEAR ONE

FALL TERM		WINTER TERM		SPRING TERM	
COURSE	CREDITS	COURSE	CREDITS	COURSE	CREDITS
Foundations of Biology I.....	3	Core Domain.....	3	Foundations of Biology II.....	4.5
Biostatistics Lab I.....	1.5			General Chemistry II.....	4.5
General Chemistry I.....	4.5			Writing Competency.....	4
Pre-Calculus/Calculus I.....	4			Core Domain.....	3
Portal Course.....	3				
<b>TOTAL</b>	<b>16</b>		<b>3</b>		<b>16</b>



### CONTACT US | Admissions Office

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