

# Biology

School of Arts and Sciences

## Inspired to learn

A Bachelor of Science degree in biology from Marian University prepares students for several post-baccalaureate options, including graduate school, professional school, and numerous careers in industry, health care, and academics. Through lecture, laboratory, and field work, students gain valuable experience that places emphasis on research and analysis. Marian's biology program offers the following:

- The opportunity to dissect a human cadaver, which allows students to gain valuable knowledge of human anatomy and physiology.
- An independent research course for seniors, allowing students to integrate their training in science and the liberal arts.
- Opportunities to participate in providing continuing medical education for regional paramedical personnel.
- The ability to develop a résumé that will help ensure job placement and acceptance into quality graduate and professional programs.

## Inspired to lead

Marian's biology students acquire the critical thinking skills that are important for biological research and analysis. Employers, as well as graduate and professional schools, look for students who have applied their learning through field experiences and research opportunities. Marian University's biology program includes opportunities for hands-on learning through internships and research. Marian students are recognized for their leadership and cognitive ability and have been selected for collaborative research projects, including:

- Effects of Water and Sanitation Following the Closing of Imbirani Clinic, Kenya.
- Giraffee and Zebra Population and Habitat Conservation in Manyara and Taragire National Parks, Tanzania.
- Temperature and osmotic stress tolerance of *Escherichia coli* beach sand isolates, University of Wisconsin–Milwaukee and the WATER Institute, Milwaukee, Wis.

## Inspired for success

Marian graduates have the foundation and qualifications to enroll in graduate or professional school and the experience needed to enter the field. Biology students are prepared for careers, and further study in graduate or professional school including:

- Physician Assistant
- Education
- Environmental research/protection/stewardship
- Industrial and biological research
- Medicine
- Optometry
- Physical therapy
- Veterinary medicine

## Inspired to connect

School of Arts and Sciences

1-800-2-MARIAN ext. 7175

(920) 923-7175

Office of Admission

45 S. National Avenue

Fond du Lac, WI 54935-4699

1-800-2-MARIAN ext. 7650

(920) 923-7650

[admission@marianuniversity.edu](mailto:admission@marianuniversity.edu)

[www.marianuniversity.edu](http://www.marianuniversity.edu)

**MARIAN UNIVERSITY**  
Inspired.

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# Biology

## 4-year course sample

### Freshman Level

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BIO 101	Biological Principles I	4	BIO 102	Biological Principles II	4
CHE 101	Principles of Chemistry I	4	CHE 102	Principles of Chemistry II	4
ENG 105	Expository Writing	3	ENG 106	Argumentative and Research Writing	3
GEN 101	First-Year Seminar	3	BIO 010	Biology Seminar I	0
THE 101	Introduction to Christian Theology	3	MAT	Mathematics Elective	5

17 credit hours

16 credit hours

### Sophomore Level

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BIO 231	Botany	4	BIO 020	Biology Seminar II	0
CHE 201	Organic Chemistry I	3	BIO 311	Bacteriology and Lab	4
CHE 251	Organic Chemistry I Lab	1	CHE 202	Organic Chemistry II	3
HIS 10x	World Civilizations I or II	3	CHE 252	Organic Chemistry II Lab	1
PHI 132	The Examined Life	3	PSY/SOC	Psychology/Sociology Elective	3
			ENG	Literature Elective	3

14 credit hours

14 credit hours

### Junior Level

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BIO 300	Biology Literature and Seminar	2	BIO 302	Cell and Molecular Biology	4
BIO 301	Genetics and Lab	4	BIO 324	Research Design and Biostatistics	5
ART/MUS	Art/Music Elective	3	THE	Theology Elective	3
BIO	Major Elective	4		Applied Liberal Arts Elective	3
	Elective	3			

16 credit hours

15 credit hours

### Senior Level

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BIO 425	Biology Senior Research I	1	BIO 426	Biology Senior Research II	1
BIO	Major Elective	4	BIO 497	Internship	1
	Social Science Elective	3		Arts/Humanities Elective	3
	Electives	6		Electives	9

14 credit hours

14 credit hours

Minimum GPA of 2.5 in major courses required