

# Biology Program

## OVERVIEW OF THE PROGRAM

Biology is the study of life which is a wide-ranging and rapidly growing discipline. Understanding biology requires a working knowledge of all the sciences especially chemistry and mathematics. The biology program at FSU strives to provide students with a broad based education in all fields of biology as well as a fundamental knowledge of chemistry and mathematics.

Programs for students who wish to specialize in biology include the B.A. in education where students may select biology as a teaching field, the B.S. degree with a major in biology, and the B.S. degree in biology with an emphasis in biotechnology. The B.S. degree curriculum is structured to give students some flexibility in their program by selecting advanced courses from three areas of study; Organismal Biology, Ecology or Cell and Molecular biology.

## EMPLOYMENT OPPORTUNITIES

Completing the B.A. degree in education with specialization in biology AND passing the appropriate certification exam(s) will certify you to teach biology at the high school level.

A four year B.S. degree in biology will prepare you to compete for entry level jobs such as lab technician, wildlife biologist, research scientist or naturalist among others. While a bachelor's degree in biology will help you get a job, other careers require additional education beyond the B.S. degree. Many of our best students compete successfully for admission to graduate study at institutions across the country. A biology degree will also provide the pre-professional training required for fields such as dentistry, medicine, pharmacy, and veterinary medicine among others.

By selecting a minor or adding a second field of study, additional career opportunities become available. Combining a biology degree with additional study in business allows one to compete for management or marketing jobs in pharmaceutical firms and biological supply companies. Biology and computer science offers opportunities in the



fact fact

*The annual median wage for a  
Biologist is \$55,300.00.*

FOR MORE INFORMATION VISIT

[www.fairmontstate.edu/academics/collegeofscitech/default.asp](http://www.fairmontstate.edu/academics/collegeofscitech/default.asp)

rapidly growing area of bioinformatics. Biology and English, journalism or art may lead to careers as a scientific writer or illustrator for highly technical journals or general (popular press) publications. The combinations are as diverse as biology itself, and you are encouraged to explore additional opportunities by consulting with your biology advisor.

## CONTACT INFORMATION

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## NOTES

# MODEL SCHEDULE

## Biology (B.S.)

### FRESHMAN FIRST SEMESTER

BIOL 1105	BIOLOGICAL PRINCIPLES I	4
CHEM 1105	CHEMICAL PRINCIPLES I	5
MATH 1185	APPLIED CALCULUS I	4
ENGL 1104	WRITTEN ENGLISH I	3
		16

### FRESHMAN SECOND SEMESTER

BIOL 1106	BIOLOGICAL PRINCIPLES II	4
CHEM 1106	CHEMICAL PRINCIPLES II	4
CHEM 1113	PRACT. SCI. STATISTICS	1
ENGL 1108	WRITTEN ENGLISH II	3
COMM 2200 OR 2201 OR 2202		3
		15

### SOPHOMORE FIRST SEMESTER

BIOL 2203	GENERAL ZOOLOGY	4
CHEM 2201	ORGANIC CHEMISTRY I	4
INFO 1100	COMP. CONCEPTS	3
L.S.		3
L.S.		3
		17

### SOPHOMORE SECOND SEMESTER

BIOL 2202	GENERAL BOTANY	4
CHEM 2202	ORGANIC CHEMISTRY II	4
L.S.		3
L.S.		3
L.S.		3
		17

### JUNIOR FIRST SEMESTER

BIOL 3306	FUNDAMENTALS OF ECOLOGY	4
BIOL 3380	GENETICS	4
L.S.		3
L.S.		3
		14

### JUNIOR SECOND SEMESTER

BIOL 3368	ANIMAL PHYSIOLOGY	4
-OR-		
BIOL 3370	PLANT PHYSIOLOGY	4
BIOL 3390	MOLECULAR BIOTECHNOLOGY	4
BIOL ELECTIVE		4
L.S./ELECTIVE		3
		16

### SENIOR FIRST SEMESTER

BIOL ELECTIVE		4
BIOL ELECTIVE		4
L.S./ELECTIVE		3
L.S./ELECTIVE		3
L.S./ELECTIVE		3
		17

### SENIOR SECOND SEMESTER

L.S./ELECTIVE		4
L.S./ELECTIVE		4
BIOL 4485	SENIOR SEMINAR	2
L.S./ELECTIVE		3
L.S./ELECTIVE		3
		16