

# Bachelor of Science in Biology

# College of Arts and Sciences

## **FACT**

Employment of biological scientists is projected to grow 3 percent over the 2012 – 22 decade, much faster than the average for all occupations. About 40 percent of all biological scientists are employed by federal, state, and local governments.

*Source: Occupational Outlook Handbook, 2012 – 13 Edition*

## **Developing Expertise**

Biology, the study of life, serves as the basic science for such areas as medicine, agriculture, and environmental studies. At Governors State University, you receive a strong background in the basic concepts of molecular, organismic, and population biology. In addition, laboratory courses give you the training you need for highly developed laboratory skills.

## **Ideal Environment**

GSU is uniquely located where urban and rural areas meet, allowing you to explore a diverse range of complex environments. GSU's outstanding and engaged faculty combines real-world field experience with the latest research and state-of-the-art laboratory equipment.

You may intern at United States Fish and Wildlife Services, the U.S. Environmental Protection Agency, the Forest Preserve District of Will County, Indiana Dunes National Lakeshore, Brookfield Zoo, and Argonne National Laboratory.

## **Outstanding Preparation**

GSU combines the latest technology with innovative teaching methods to prepare you for rewarding careers in such areas as pharmaceuticals, genetic engineering, education, microbiology, and the environment. You are also prepared for advanced medical, dental and veterinary studies, and graduate level work in biology.

## **Unlimited Opportunity**

GSU offers a superior educational opportunity at an affordable tuition rate while maintaining the professional quality of its programs. GSU's outstanding faculty and real-world curriculum prepare graduates to meet the demands of the future.

## **Program Information:**

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Academic Advisor  
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## Degree Requirements

Students must meet all university requirements for a bachelor's degree.

In addition, only grades of "C" or better will be accepted for transfer for the following courses normally taken at the lower-division level: eight hours of general biology with laboratory, three hours of botany with laboratory, three hours of zoology with laboratory, eight hours of general chemistry with laboratory, eight hours of organic chemistry with laboratory, and college algebra.

## General Education Requirements (38 – 41 Hours)

The following courses must be taken to meet major and general education requirements:

General Biology I with Laboratory (4)  
General Chemistry I with Laboratory (4)  
MATH - 2281 Applied Calculus (3)

## Required Courses (63 Hours)

The following courses must be taken at the lower-division level:

General Biology II with Laboratory (4)  
General Chemistry II with Laboratory (4)

The following courses can be taken at either the lower-division or upper-division level:

Botany with Laboratory (3)  
Zoology with Laboratory (3)  
Organic Chemistry with Laboratory (8)  
BIOL - 3360 Comparative Anatomy (3)  
BIOL - 3361 Comparative Anatomy Laboratory (1)  
BIOL - 4430 Microbiology (3)  
BIOL - 4431 Microbiology Laboratory (1)  
PHYS - 2141 Intermediate Physics I (3)  
PHYS - 2142 Intermediate Physics Lab I (1)  
PHYS - 2143 Intermediate Physics II (3)  
PHYS - 2144 Intermediate Physics Lab II (1)

The following courses must be taken at the upper-division level:

BIOL - 3099 Biology Junior Seminar (3)  
BIOL - 3322 Ecology (3)  
BIOL - 3323 Ecology Laboratory (1)  
BIOL - 3340 Genetics (3)  
BIOL - 3370 Cell Biology (3)  
BIOL - 3371 Cell Biology Laboratory (1)  
BIOL - 4450 Animal Physiology (3)  
BIOL - 4451 Animal Physiology Laboratory (1)  
BIOL - 4460 Plant Physiology (3)  
BIOL - 4461 Plant Physiology Laboratory (1)  
BIOL - 4965 Senior Capstone: Evolution (3)  
BIOL - 4990 Undergraduate Research I (1)  
BIOL - 4992 Undergraduate Research II (1)  
STAT - 4219 Statistical Methods (3)

## Upper-Division Applications Selectives (9 Hours)

Select nine hours from the following courses:

BIOL - 4510 Biological Literature (1)  
BIOL - 4522 Ornithology (2)  
BIOL - 4523 Ornithology Laboratory (1)  
BIOL - 4530 Biotechnology (2)  
BIOL - 4531 Biotechnology Laboratory (1-2)  
BIOL - 4555 Mammalogy (2)  
BIOL - 4556 Mammalogy Laboratory (1)  
BIOL - 4560 Plant Systematics (2)  
BIOL - 4561 Plant Systematics Laboratory (1)  
BIOL - 4570 Immunology (3)  
BIOL - 4580 Behavioral Ecology (3)  
BIOL - 4700 Conservation Genetics (2)  
BIOL - 4701 Conservation Genetics Lab (1)  
NOTE: Other biology courses as approved by the academic advisor.

## Electives (7 Hours)

May include credit-hours needed to meet minor requirements.

## Total - 120 Hours

2016 – 17 Catalog Year

