

# College of Sciences and Engineering

## Fields of Study

The Department of Biological Sciences offers a single degree at the undergraduate level, a Bachelor of Science (B.S.) in Biology. The Department also offers a Master of Science (M.S.) degree in Biology in order to allow students the opportunity to engage in advanced education and research. Information about the graduate program in Biology can be obtained from the University's Graduate School.

### For further information, please contact:

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**SOUTHERN  
UNIVERSITY**  
AND AGRICULTURAL & MECHANICAL COLLEGE

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## Biology

### **Why Biology?**

Biology is the study of life. It is essential to human society because it gives an understanding of how life is formed and how it works, changes and responds to environmental influences.

Biologists are at the forefront of key ecological issues and global challenges. Research being conducted today in biology, including plant breeding and genetic modification, can be used to increase the world's food supply. Even more impressive, approximately 70 percent of new medicines are derived from the chemicals produced naturally by plants, particularly from tropical forests.

Biologists are always discovering new things about life. With this new understanding, we can not only improve our lives, but also ensure the future health of our planet.



### **Why Southern University?**

The Southern University Biological Sciences program provides a superior program of instruction as it relates to the study of various aspects of the life processes. Consequently, the department produces graduates who pursue productive careers as physicians, dentists, veterinarians, research scientists, teachers, and allied health professionals. The program faculty consists of 17 biologists, 70% of whom hold the doctorate degree. Many are engaged in active scientific research seeking to solve problems to achieve a better understanding of the world in which we live. All are highly motivated professors who seek not only to train new biologists but also to give non-majors a sound background in the study of biology as it applies to them and their communities.

The program is home to research-grade instrumentation to teach such techniques as transmission electron microscopy, high performance liquid chromatography, spectrophotometry, and electrophoresis.



### **Scholarship Opportunities**

The Biology program provides a limited number of very competitive University scholarships to highly motivated students, which are renewable for up to four years to those maintaining a high academic standing. In addition, there are several other fellowships that are funded by the National Science Foundation, as well as grants, loans, and opportunities for work study.

### **Program Objectives**

The Biology program is dedicated to preparing students to compete globally and to address human needs locally, nationally, and internationally through research and service in the biological sciences. The objectives of the program are:

- to provide instruction that will produce students who demonstrate a proficiency of knowledge in general biology, zoology, botany, physiology, microbiology, and genetics.
- to graduate students that have research experience and who can prepare oral and written reports in a standard scientific manner.

### **Biological Science Organizations**

Listed below are some student organization that biology majors may join:

- Beta Kappa Chi
- National Institute of Science
- Tri-Beta Biological Honor Society
- Association of Biological Sciences honor Society (AIBS)
- Sigma Xi
- Minority Association of Pre-Medical Science Students (MAPS)
- Microbiology Club