

Biology

BACHELOR OF SCIENCE



Where It Can Take You

The personal attention you'll receive from our faculty members and the research opportunities you'll have will provide you with a pathway to success, whether that's a career in medicine, teaching, research, or another health profession. Things are looking up.

Become a Leader

biomedical researcher
chiropractor
dentist, hygienist, dental assistant
ecologist
educator
forensic biologist
genetic counselor
marine biologist
nutritionist
optometrist
pharmacist, pharmacy technician
physical therapist
physician, physician assistant, nurse
podiatrist
science writer

Learn More
cns0.nova.edu

B.S. in Biology

Jump into one of the fastest growing areas of science. Business and industry need more biology graduates; and as that need continues to grow, Nova Southeastern University (NSU) can help you fulfill that need.

What You'll Study

How to integrate biological concepts at all levels from molecular to ecosystems, as well as how to understand major health issues, will all be covered as part of the curriculum. NSU's courses in biological and physical sciences will prepare you for research, teaching, and graduate work in health professions and natural sciences.

How You'll Learn More

You have the opportunity to do hands-on, original research. And, you can earn credits by doing guided research in the fields of biology, genetics, cell biology, endocrinology, and more. Imagine doing research on fish parasitology, brain structure and function, and Florida panther or shark genetics. All of that is available at NSU. In addition, biology students have opportunities to take part in internships and shadow physicians and nurses in local hospitals.

Unique Opportunities

- Undergraduate Student Symposium and Film Festival: present your research or analytical work; awards presented
- Beta Beta Beta: join the national biology honor society based on your academic achievement
- local, national conferences: attend or present your work based on your interests
- clinic exploration program: shadow health professionals at one of NSU's health clinics
- lab facilities: equipment enables students to practice hands-on laboratory research
- climate-sustainability lecture series: learn about the science, technology, and policies relating to climate change and sustainable development



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Biology Major Curriculum 2017–2018

Students are required to complete 30 credit hours as part of the General Education Program. Freshmen starting in fall 2016 or later are required to successfully complete the First-Year Seminar (UNIV 1000) in their first semester at NSU.

BIOLOGY MAJOR REQUIREMENTS (76 Credits)

Core Courses (49 credits)

Credits

BIOL 1500	Biology I/Lab	4
BIOL 1510	Biology II/Lab	4
OR		
BIOL 1510H	Biology II/Lab Honors	4
BIOL 3600	Genetics/Lab	4
CHEM 1300	General Chemistry I/Lab	4
OR		
CHEM 1300H	General Chemistry I/Lab Honors	4
CHEM 1310	General Chemistry II/Lab	4
OR		
CHEM 1310H	General Chemistry II/Lab Honors	4
CHEM 2400	Organic Chemistry I/Lab	4
OR		
CHEM 2400H	Organic Chemistry I/Lab Honors	4
CHEM 2410	Organic Chemistry II/Lab	4
OR		
CHEM 2410H	Organic Chemistry II/Lab Honors	4
MATH 2020	Applied Statistics	3
OR		
MATH 2020H	Applied Statistics Honors	3
MATH 2100	Calculus I	4
OR		
MATH 2100H	Calculus I Honors	4
PHYS 2350	General Physics I/Lab	4
OR		
PHYS 2400	Physics I/Lab	4
PHYS 2360	General Physics II/Lab	4
OR		
PHYS 2500	Physics II/Lab	4
LITR	Any course	3

Select one of the following 3-credit classes: PHIL 3010 Ethical Issues in Communication, PHIL 3180 Biomedical Ethics, PHIL 3180H (Honors), PHIL 3200 Ethics and Sport, PHIL 3220 Philosophy of Science, or PHIL 3360 Environmental Ethics

Major Electives (27 credits)

Credits

Select a minimum of 27 credits from the following courses (at least 16 credits must be BIOL 3000+ or 4000+ courses with at least one of these being a BIOL course with a lab).

BIOL 2600	Medical Terminology	3
BIOL 3200	General Ecology /Lab	4
BIOL 3220	Animal Behavior	3
BIOL 3300	Invertebrate Zoology /Lab	4
BIOL 3311	Vertebrate Zoology /Lab	4
BIOL 3312	Human Anatomy and Physiology /Lab	5
BIOL 3320	Anatomy and Physiology I /Lab	4
BIOL 3330	Anatomy and Physiology II /Lab	4
BIOL 3400	Microbiology /Lab	4
BIOL 3450	Introduction to Virology	3
BIOL 3500	Histology /Lab	4
BIOL 3900	Introduction to Parasitology/Lab	4
BIOL 4100	Genomics /Lab	4
BIOL 4010	Evolution	3
BIOL 4200	Neurobiology	3
BIOL 4300	Microbial Pathogenesis	3
BIOL 4321	Systems and Synthetic Biology	3
BIOL 4340	Cellular and Molecular Biology	3
BIOL 4360	Immunology	3
BIOL 4400	Developmental Biology	3
BIOL 4600	Evolution, Adaptation and Health	3
BIOL 4700	Advanced Human Physiology	3
BIOL 4960	Practicum in Biology 1	3
BIOL 4961	Practicum in Biology 2	3
CHEM 3650	Biochemistry /Lab	4

Major Electives may include a maximum of one of the following:

MATH 2001 Introduction to Mathematical Models in Biology, MATH 2200 Calculus II, MATH 2200H Calculus II Honors, or MATH 3050 Mathematics and Biology

Major Electives may include a maximum of 3 credits from the following: BIOL 4900 Special Topics in Biology, BIOL 4950 Internships in Biology, or BIOL 4990 Independent Study in Biology

This publication should not be viewed as a substitution for official program requirements and outcomes. A student is responsible for meeting the curriculum and program requirements in the *Undergraduate Student Catalog* that are in effect when the student enters the program.

Nova Southeastern University admits students of any race, color, sexual orientation, and national or ethnic origin. ■ Nova Southeastern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate's, baccalaureate, master's, educational specialist, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Nova Southeastern University. 11-012-17_04PGA

Admissions

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NOVA SOUTHEASTERN
UNIVERSITY

Halmos College of Natural
Sciences and Oceanography