Bachelor of Science in Biology

Prepare to be a leader in today’s scientific world.

THE RIVIER UNIVERSITY ADVANTAGE
Rivier’s Biology program prepares you to work in exciting and emerging scientific fields with hands-on research experience, and the skills and knowledge necessary to succeed in the global arena.

At Rivier, academic excellence is offered and great achievement is expected. You will transform yourself through engaging classroom interaction, powerful study abroad experiences, challenging internships and life-changing community service. Our mission—‘transforming hearts and minds to serve the world’—ensures that you will find a rich global experience in our vibrant campus community. Faculty members bring real-world experience to their classrooms and are dedicated to the success of every student.

ABOUT THE PROGRAM
The Bachelor of Science in Biology program is comprehensive and ensures students gain knowledge across a variety of biological disciplines. Biology core courses help students to build a firm knowledge base upon which additional upper level course work can be built. Two concentrations in Allied Health and Environmental Science give students the opportunity to take courses specifically designed to provide more detailed understanding within specialized areas. The biology program with or without a concentration allows students to explore minors in other disciplines such as chemistry, psychology, and business. Each track builds knowledge in distinct ways tailored to an individual student’s career goals.

ACCESS THE WORLD
Internships, study abroad, and co-curricular opportunities
Students can join the Biology Club and participate in biology focused events and community service. Students who perform well academically also have the opportunity to be inducted into Beta Beta Beta, a national biological honor society. New biology courses are being offered that include opportunities to travel to international field sites, such as the United States Virgin Islands, to experience firsthand and apply their knowledge when exploring different ecosystems. Students are strongly encouraged to participate in these study abroad opportunities, as well as entire semesters spent at a university abroad.

CAREERS
A degree in Biology prepares students for many of the jobs available in the biological, environmental, and biotechnological fields. Students trained in STEM (Science, Technology, Engineering, Mathematics) disciplines are in high demand and Rivier University’s Biology degree provides students with the skills necessary to be competitive for employment in related careers.

Graduates from the Biology degree program might pursue a career with or in:

- Biological Science
- Environmental Science
- Biotechnology
- Medicine
- Veterinary Medicine
- Animal Science
- Non-governmental Organizations (NGOs), both home and abroad
- Academia

Graduates are also well prepared to pursue graduate studies in medicine, dentistry, pharmacy and other fields. Rivier University’s Career Development Center (CDC) is committed to helping students on their path to become leaders in a global society.
MAJOR REQUIREMENTS
BIOLOGY CORE
BIO 103 - General Biology I
BIO 104 - General Biology II
BIO 202 - Genetics
BIO 206 - General Microbiology
BIO 214 - Ecology
BIO 390 - Seminar in Biology
BIO 426 - Special Problem in Biology

BIOLOGY ELECTIVES
Students may choose one of the following: the combined biology track, the allied health track, or the environmental sciences track. Students must take three courses from their chosen area of interest.

COMBINED BIOLOGY TRACK
Students in the combined biology track may select three courses from either the allied health track, or the environmental sciences track listed below.

ALLIED HEALTH TRACK
BIO 301 - Animal Physiology
BIO 303 - Population and Evolutionary Genetics
BIO 308 - Molecular Cell Biology
BIO 312 - Immunology
BIO 409 - Parasites, Pathogens, and Infectious Diseases

ENVIRONMENTAL SCIENCE TRACK
BIO 301 - Animal Physiology
BIO 303 - Population and Evolutionary Genetics
BIO 305 - Animal Behavior
BIO 308 - Molecular Cell Biology

RELATED MATH/SCIENCE (REQUIRED)
CHE 104 - General Chemistry I
CHE 104L - General Chemistry Laboratory I
CHE 105 - General Chemistry II
CHE 105L - General Chemistry Laboratory II
CHE 201 - Organic Chemistry I
CHE 201L - Organic Chemistry Laboratory I
CHE 202 - Organic Chemistry II
CHE 202L - Organic Chemistry Laboratory II

TWO OF THE FOLLOWING (ONE FULFILLED IN THE GENERAL EDUCATION AREA.)
MA 112 - College Algebra
MA 130 - Functions
MA 165 - Calculus I with Lab
MA 166 - Calculus II with Lab

RECOMMENDED
CHE 306 - Biochemistry I
CHE 307 - Biochemistry II
MA 110 - Introductory Statistics
PHY 111 - Physics I
PHY 111L - Physics Laboratory I
PHY 112 - Physics II
PHY 112L - Physics Laboratory II
REL 379 - Bioethics

ACADEMIC ACCREDITATION
New England Association of Schools and Colleges (NEASC)

FACULTY
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The University reserves the right to make changes when appropriate and necessary as needed without notification.

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TRANSFORMING HEARTS AND MINDS TO SERVE THE WORLD