Innovate to elevate the quality of human life.

**THE RIVIER UNIVERSITY ADVANTAGE**

Through the use of biological processes, organisms, or systems, biotechnologists create products and solutions intended to improve the quality of human life—alternative energy sources like biofuels, environmentally friendly industrial materials such as biodegradable plastics, pest-resistant crops, drug therapies and vaccines that address the root cause of diseases.

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**

Rivier’s Biotechnology program takes a holistic approach to education, combining foundational knowledge, practical skills, and additional experience in business and innovation. Students build a strong knowledge base through rigorous coursework and hands-on laboratory training in biology, chemistry, biochemistry, and physics. Practical skills are developed through job shadowing and internship experiences, which begin in a student’s first year of study, as well as lab research. Visits and collaborations with local and global biotechnology firms enhance the educational experience.

**ACCESS THE WORLD**

**Internships, study abroad, and co-curricular opportunities**

Local and global teaching trips offer students exposure to biotechnology firms and laboratories, field sites, and different ecosystems. Established partnerships with universities outside of the U.S. enable students to engage in an international dialogue and gain insight into advances being made around the world.

The Biotechnology curriculum requires one internship; however, students are encouraged to participate in several internships beginning as early as freshman year. The Biology Club offers biology-focused events and community service activities. Membership in Beta Beta Beta, a national biological honor society, is available to students who perform well academically.

**CAREERS**

Program graduates are work-force ready and well-positioned for jobs in environmental, industrial, and medical biotechnology. Those that choose to continue their educations are prepared for success in master’s and doctoral programs.

**Graduates from the Biotechnology degree program might pursue a career in one of the following fields:**

- Research and development
- Genetics
- Pharmaceuticals
- Food science
- Aquaculture
- Environmental health and safety

Rivier University’s Career Development Center (CDC) is committed to helping students on their path to become leaders in a global society.
JOURNEYS OF TRANSFORMATION

Rivier University’s core curriculum called “Journeys of Transformation” offers opportunities for service learning, servant leadership, civic engagement, or community service supporting the intellectual growth of students and enhancing student leadership. The core is aligned with the American Association of College & Universities (AAC&U’s) essential learning outcomes, which provide Rivier graduates with the strong intellectual and practical skills that are in demand in the workplace.

DEGREE REQUIREMENTS

The B.S. in Biotechnology degree requires a combination of General Education (core curriculum), Major, and General Elective courses.

MAJOR REQUIREMENTS

BIOTECHNOLOGY COURSES
- BIO 103 - General Biology I
- BIO 104 - General Biology II
- BIO 202 - Genetics
- BIO 206 - General Microbiology
- BIO 220 - Biotechnology
- BIO 308 - Molecular Cell Biology
- BIO 350 - Environmental and Applied Microbiology
- BIO 385 - Integrative Biotechnology
- BIO 496 - Biotechnology Internship

RELATED SCIENCE COURSES
- CHE 104 & 104L - General Chemistry I and Lab
- CHE 105 & 105L - General Chemistry II and Lab
- CHE 201 & 201L - Organic Chemistry I and Lab
- CHE 202 & 202L - Organic Chemistry II and Lab
- PHY 111 & 111L - Physics I and Lab
- PHY 112 & 112L - Physics II and Lab
- CHE 306 - Biochemistry I

RELATED BUSINESS COURSES
- BUS 175 - Principles of Management
- BUS 215 - Principles of Marketing
- BUS 220 - Financial Accounting
- BUS 226 - Principles of Project Management
- BUS 305 - Introduction to Entrepreneurship
- BUS 324 - International Entrepreneurship

ELECTIVE COURSES

Students complete six credits/two 3-credit elective courses.

ACADEMIC ACCREDITATION

New England Association of Schools and Colleges (NEASC)

FACULTY

Joel Stake, Ph.D.
- Department Coordinator
- Associate Professor of Biology
- Ph.D., University of Louisiana at Lafayette
- M.S., University of Louisiana at Lafayette
- B.S., Louisiana College

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- B.S., Concordia University, Montreal, Quebec, Canada

Benjamin Philip, Ph.D.
- Associate Professor of Biology
- Ph.D., Miami University
- M.Sc., Eastern Michigan University
- B.A., Miami University

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

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