Rivier
UNIVERSITY

B.A./M.S.
Mathematics/
Computer Science 4+1

Fast track your career.

Why Study at Rivier?

The combination of Math and Computer Science degrees offers you the opportunity to develop a deep understanding of mathematical reasoning and computing. In just five years of study, you'll earn both your undergraduate and master's degrees, providing the foundation for a successful career in a variety of dynamic industries.

Build Your Knowledge Base

The B.A. in Mathematics features courses in mathematics, physics, and elective internships and computer science classes. You'll gain knowledge and skills to apply mathematical concepts, methods, functions and models to solve real-world problems. With an M.S. in Computer Science, you'll develop advanced computing skills and the ability to apply those skills to solve critical business and research issues.

Gain Real-World Experience

In today's data-driven society, employers value professionals with strong quantitative and analytical skills. Coursework, internships, and extracurricular activities enable you to better prepare for your career interests and goals. Study abroad, clubs, and on-campus events offer learning and leadership opportunities outside the classroom.

Begin Your Career

Rivier's 4+1 program graduates can pursue careers as:

- Mathematicians, actuaries, and statisticians
- Computer and systems analysts
- Underwriters, financial planners and advisors
- Urban planners
- Software developers
- Data analysts
- Cybersecurity specialists
- Chief information officers

36,000 sq. ft.
cutting-edge Science & Innovation Center

90+ years
of educational excellence

100%
of students receive financial aid

100%
of students complete internships, field experiences, or service learning programs

Journeys of Transformation

Rivier University's core curriculum, titled Journeys of Transformation, aligns with the American Association of College & Universities essential learning outcomes. Coursework focuses on developing strong intellectual and practical skills for workforce success, and offers opportunities for service learning, servant leadership, and civic engagement to enhance leadership abilities.

B.A. Course of Study

Mathematics Courses
MA 165 - Calculus I with Lab
MA 166 - Calculus II
MA 210 - Linear Algebra
MA 220 - Calculus III
MA 310 - Discrete Mathematics
MA 317 - Problem-Solving and Modeling
MA 320 - Classical Geometries
MA 330 - Mathematical Statistics
MA 420 - Abstract Algebra
MA 490 - Mathematics Research
    or
MA 495 - Internship
CS 301 - Computer Science Fundamentals

Related Science Courses
PHY 111 - Physics I
PHY 111L - Physics Laboratory I
PHY 112 - Physics II
PHY 112L - Physics Laboratory II

Mathematics/Computer Science Electives
Students complete six credits/two 3-credit courses at or above the 200 level in Mathematics or Computer Science.
As part of their bachelor's degree program, students applying for the combined 4+1 M.S. in Computer Science program must successfully complete the following:
MA 130 - Functions or higher-level Math course
CS 301 - Computer Science Fundamentals
CS 335 - Introduction to Database Management

General Elective Course
Students complete a minimum of ten 3-credit courses (30 credits).

M.S. Course of Study

Required Courses
CS 552 - Object-Oriented Design
CS 553 - Networking Technologies
CS 554 - Operating Systems
CS 556 - Computer Architecture
CS 557 - Algorithms
CS 585 - Practical Java Programming
CS 699 - Professional Seminar

Graduate Computer Science Electives
Students complete 9 credits/three 3-credit courses.

Innovative Employment Promise Program

Rivier's Employment Promise Program enhances the career preparation and employability of students in all academic disciplines. The program includes mentorship through Rivier's Career Development Center and a specialized, four-year academic/professional development plan that incorporates experiences proven to increase overall employability and success in the job search process.

Confidence in the quality of a Rivier education enables the University to ensure invested students will secure employment within nine months of graduation. If not, the University will provide the student additional financial or educational support. Get more information at **rivier.edu/epp**.

You're Invited

Attend an on-campus event, or schedule an individual campus tour for you and your family. You can access a complete listing of events and register online at **events.rivier.edu** or call us at (603) 897-8507.

Academic Accreditation

Rivier University is accredited by the New England Commission of Higher Education (NECHE).

Quick Links

Ask a Question – admissions@rivier.edu

Schedule a Visit – events.rivier.edu

Talk to an Admissions Counselor – rivier.edu/team

Tuition & Fees – rivier.edu/tuition