Bachelor of Arts in Mathematics

Prepare to reason and problem solve by the numbers.

THE RIVIER UNIVERSITY ADVANTAGE
The problem-solving, quantitative, and analytical skills of mathematics are critical for twenty-first century employment and leadership. Rivier’s Mathematics program prepares you for a wide variety of careers in business, industry, government, and education.

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 Arts in Mathematics program integrates problem solving experiences and practical applications with computational fluency and mathematical logic. Students in the mathematics program are encouraged to complement their degree with study in another discipline such as business, education, or science, broadening their background. Students graduate prepared for a life-long journey of work and learning in an increasingly complex, data-driven world.

ACCESS THE WORLD
Internships, study abroad, and co-curricular opportunities
Mathematics students have the opportunity to participate in internship programs and service learning projects. Students are strongly encouraged to participate in various study abroad opportunities ranging from faculty-led week-long study tours to entire semesters abroad spent at a university abroad.

CAREERS
Whether it is business, law, education, medicine, government or academia—the Mathematics program provides graduates with the foundational skills for nearly any future career. The emphasis on reasoning and problem solving helps graduates distinguish themselves in a highly competitive job market and enables them to advance quickly.

Graduates from the Mathematics program might pursue a career with or in:
• Business Management and Operations Analysis
• Insurance and Risk Assessment
• Financial Consulting and Investments
• Education and Academia
• Computer Science
• Government Security or Research Labs
• Transportation Network Design and Analysis

Graduates are prepared to move directly into many of Rivier University’s master’s degree programs, including the “+1” accelerated Master of Business Administration, the Master of Arts in Teaching Mathematics, and the Master of Science in Computer Science.

To meet the opportunities and challenges posed by an increasingly complex, data-driven world, 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.

MAJOR REQUIREMENTS
MATHEMATICS CORE
MA/CS - Elective
MA 165 - Calculus I with Lab
MA 166 - Calculus II with Lab
MA 210 - Linear Algebra
MA 220 - Calculus III
MA 230 - Differential Equations
MA 310 - Discrete Mathematics
MA 317 - Problem-Solving and Modeling
MA 320 - Classical Geometries
MA 330 - Mathematical Statistics
MA 420 - Abstract Algebra
MA 445 - Introduction to Mathematical Analysis
MA 490 - Mathematics Research

RELATED SCIENCE COURSE
PHY 111 - Physics I
PHY 111L - Physics Laboratory I
PHY 112 - Physics II
PHY 112L - Physics Laboratory II

RECOMMENDED MATHEMATICS/SCIENCE ELECTIVES
CS 120 - Introduction to Computing and Information Literacy
CS 301 - Computer Science Fundamentals
MA 205 - History of Mathematics
MA 455 - Topics in Mathematics
MA 490 - Internship

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. (0415)