Rivier
UNIVERSITY

B.S.
Computer Science

Shape the future of our high-tech world

Why Study at Rivier?

With our B.S. in Computer Science, you will acquire a conceptual understanding of computer systems and significant project experience in computing areas such as programming, networking, operating systems, software engineering, databases, and web development.

Concentrations in Data Science, Cybersecurity, Software Development and Game Programming allow students to specialize in their area of interest.

Build Your Knowledge Base

Upon graduation, students will possess not only a solid theoretical knowledge, but also professional practices that allow them to strengthen their skills as the field evolves. Seniors participate in a robust internship program, gaining job experience, skills, and professional references that often lead to permanent positions after graduation.

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. Rivier's campus is ideally located in Nashua, which allows students to explore diverse job opportunities at high-tech companies from Manchester, New Hampshire, to Boston, Massachusetts.

Begin Your Career

Computer Science graduates can pursue careers as:

- Artificial intelligence engineers
- Business analysts
- Database engineers
- Chief information security officers
- Information security analysts
- Network architects

Advanced Degrees

Rivier offers a 4+1 program in Computer Science, providing students who receive their bachelor's degree in Computer Science the ability to pursue a master's degree in Computer Science from Rivier in just one year through the University's 4+1 B.S./M.S. program.

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.

Courses/Specializations

Computer Science Core Courses

Coding Adventures I
Coding Adventures II
Introduction to Computer Architecture
Cybersecurity Law & Ethics
Computer Science Fundamentals
Computer Networks

Algorithms
Database Management Systems
Object-Oriented Programming
Software Engineering
Operating Systems
Capstone Project
Internship I

Computer Science Concentration Courses

Data Science
- Artificial Intelligence and Machine Learning
- Deep Learning
- Data Mining
- Knowledge-Based Systems
- Natural Language Processing
- Robotics

Cybersecurity
- Computer Security
- Ethical Hacking
- Information Technology
- Advanced Networking

Software Development
- Object-Oriented Programming
- Web Development
- Introduction to Software Engineering

Game Programming
- Game Programming I
- Game Programming II
- Computer Graphics
- Computer Vision

Topics in Computer Science
Internship II/III

Related Mathematics and Physics Courses
Physics I
Physics Lab
Calculus I with Lab
Linear Algebra
Discrete Math

General Elective Courses
Students choose three elective courses (7-9 credits) to reach the total number of credits required for this degree.

Apply Today

Apply online using the Common App or directly at apply.rivier.edu.

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