The computer science major at PC — offered by the Department of Mathematics and Computer Science — provides students with the knowledge of networks, databases, operating systems, networking, as well as the mathematics that form the base of the field. Our program incorporates rigorous practice in solving problems using algorithms and teaches students how to implement solutions using high-level programming languages. With a B.S. in computer science, you can pursue a variety of careers. Become a software applications developer, computer systems analyst or engineer, network systems administrator, database administrator, business intelligence analyst, web developer, computer programmer, and more.

**B.S. Computer Science**

Learn concepts and technical skills: advanced theories; hardware organization from the central processing unit to individual components including registers, memory, digital components, and component connections; the theory of computer networks and network algorithms; and more. Students may also focus on special topics in computer science and complete an independent study or research in the field.

**Minors**

**Computer Science**: The computer science minor provides a solid foundation in programming skills and technical knowledge while allowing students to choose upper-level electives in their areas of interest.

**Data Science**: In the data science minor, students acquire the technical knowledge to identify relevant questions and the programming skills and statistical knowledge to collect, organize, and interpret the data which answers these questions.

Explore Courses of Study and More
Each year, students from the Department of Mathematics and Computer Science conduct research with a faculty mentor and may choose to present research at Providence College’s annual Celebration of Student Scholarship and Creativity.

As a computer science major, you will be challenged in the classroom and out. To complement coursework, we urge our students to participate in engaged learning opportunities where knowledge is put into real-world practice.

Our faculty members have decades of combined experience teaching many aspects of mathematics and computer science. Their scholarly interests include big data, statistics, computer networking, operating systems, and computational sustainability.

Selected Places of Employment

- EY
- American Express
- Fidelity Investments
- PwC
- Prudential Financial
- Apple Inc.
- Raytheon Technologies
- Bloomberg
- Google
- HP
- Boston Dynamics
- IBM
- Thermo Fisher
- Liberty Mutual Insurance
- U.S. Department of Transit
- Lockheed Martin
- MEDITECH
- Willis Towers Watson
- Dell EMC
- MVR Insurance Agency
- World Bank

Selected Graduate Schools

- Boston College
- George Mason University
- University of Maine School of Law
- Boston University
- Loyola University Chicago
- University of Notre Dame
- Brown University
- Northeastern University
- University of Pennsylvania
- Clemson University
- Providence College
- University of Rhode Island
- Colorado State University
- Rutgers University
- University of Southern California
- Duke University
- Tufts University
- Wake Forest University
- Fordham Law School
- University of Connecticut
- Worcester State University

98% of computer science, math, and physics graduates are employed or attending graduate school (Providence College classes of 2018 – 2022)

mathematics-computer-science.providence.edu