

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





# ENGAGED LEARNING AND POST-GRAD OUTCOMES

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

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

## Selected Graduate Schools

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

# 98%

of computer science, math, and physics graduates are employed or attending graduate school  
(Providence College classes of 2019 – 2023)