



# Computer Science

*Understand, use and design the technology of today and tomorrow. You'll develop the mind behind the machine through Northwestern's liberal arts curriculum, and as you explore shifting technology issues, you'll discover your faith and values are a solid foundation for your work as a computer scientist.*

## Study options

- Computer science major/minor
- Software engineering major
- Computer programming minor
- Computer science career concentration

**Computer science** is a mathematical and engineering discipline that studies the structure, theory and application of computers and software. You'll learn how information is represented and organized and how complex data is managed. You'll also study the historical and societal impact of technological advances.

**Software engineering** is the study of systematic approaches to the development, operation and maintenance of software. In this major, students will learn how to write code in a variety of programming languages and develop efficient algorithms to solve problems.

## Code Champions

Your student membership in the Association for Computing Machinery (ACM) will look good on your résumé and connect you with professionals already working in the field of computing. Members are eligible to compete in ACM's programming contests.

*In both 2009 and 2010, Northwestern's programming team was among the top 100 in the world. They competed in Sweden and China, alongside teams from MIT, Stanford, Oxford and the universities of Cape Town, Helsinki and Moscow.*

## Faculty

Northwestern's computer science professors are code experts. They're also personable, creative, excellent teachers who will feel more like peers by the time you graduate and start your career.

## Programmed for success

The digital revolution we're currently experiencing shows no signs of slowing down. Information technology professionals will face fast-paced change their entire working lives. Northwestern computer science majors have the skills to go the distance.

A Northwestern computer science education provides the knowledge, skills, experience, critical-thinking abilities and values necessary for a transformative career in analytics, database management, game design, network administration, programming, software engineering, web development, research or more.

Our computer science graduates enjoy 100% career placement rates, mostly in high-paying jobs at companies that include Apple, Google, IBM, Microsoft and Lockheed Martin. But their excellent career preparation is only half the program. They've also discovered the place of faith in the digital age.

*Updated January 2021*

**To learn more about our professors and students, and see what graduates are doing:**

[nwcsiowa.edu/computer-science](http://nwcsiowa.edu/computer-science)

## Office of Admissions

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