DEPARTMENT OF COMPUTER SCIENCE
CS.MINES.EDU
CS@Mines

PROGRAM SCOPE
The Mines computer science degree is accessible to students with or without prior programming experience and reflects a mixture of theory and application. Students are exposed to common industry practices and a wide variety of programming languages such as Python, Java, Scala, JavaScript and C++.

681 Undergraduate students
$72,931 Average starting salary for computer science graduates based on 2018-2019 Mines Career Center Outcomes.
21 Faculty members

AREAS OF STUDY
DEGREES OFFERED
✓ Computer Science
  Bachelor’s, Master’s & PhD offered
✓ CS+ Business
  Bachelor’s
✓ CS+ Computer Engineering
  Bachelor’s
✓ CS+ Data Science
  Bachelor’s
✓ CS+ Research Honors
  Bachelor’s
✓ CS+ Robotics & Intelligent Systems
  Bachelor’s

MINORS
+ Computer Science
+ Computer Engineering
+ Data Science
+ Robotics & Intelligent Systems

EXAMPLE CS ELECTIVE COURSES
Artificial Intelligence
Data Science
Mobile Applications
Robotics
Security and Privacy
Web Programming

INTERNSHIPS & CAREER OPPORTUNITIES
Students and graduates find positions in several sectors including technology, engineering and financial companies. Computing jobs are among the highest paid, and computing professionals generally report high job satisfaction. 2018-19 graduates had a 98% positive career outcome.

STUDENT EXPERIENCE & HANDS-ON LEARNING
Hands-on learning is not confined to the classroom at Mines. There are a number of clubs and competitions in which students can get involved. Club volunteers have the unique opportunity to work on projects that benefit Mines and surrounding communities. Opportunities are also available for students to participate in K-12 outreach with the goal of encouraging the next generation of computer scientists.

STUDENT ORGANIZATIONS
• Association for Computing Machinery (ACM)
• Association for Computing Machinery - Women (ACM-W)
• Linux Users Group (LUG)
• OreSec (Cybersecurity)
• Robotics Club and other interdisciplinary clubs
CS@Mines

C-MAPP 2019-2020

The Computing-Mines Affiliate Partnership Program is designed to improve relationships between industry and CS@Mines, while also providing professional learning activities to Mines’ computing students. C-MAPP partners have a professional interest in the well-being of computing at Mines.

MINES COMPUTER SCIENCE FACULTY

Mark Baldwin
Software Engineering, Computer Games

Dr. Mehmet Belviranli
High Performance Computing

Dr. Tracy Camp
Machine Learning, Networking, Education

Dr. Neil Dantam
Robotics

Dr. Vibhuti Dave
Computer Hardware, Education

Dr. Wendy Fisher
Machine Learning, Education

Dr. Amelia Read
Database Systems, Education

Dr. Qi Han
Networked Systems, Swarm Robotics

Dr. William Hoff
Augmented Reality, Computer Vision

Dr. Jedidiah McClurg
Programming Languages

Dr. Dinesh Mehta
Applied Algorithms

Tim Miller
Programming Languages

Dr. Christopher Painter-Wakefield
Data Structures, Databases, Web Applications, Education

Dr. Jeffrey Paone
Mobile Apps, Graphics

Dr. Phillip Romig III
Security & Privacy

Dr. Hua Wang
Machine Learning, Big Data

Dr. Thomas Williams
Robotics

Dr. Bo Wu
High Performance Computing

Dr. Dejun Yang
Mobile Sensing, Networking

Dr. Chuan Yue
Security & Privacy

Dr. Hao Zhang
Robotics