The CS degree at Mines 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 Ruby, Python, Java, Haskell and C++.

Areas of Study

- Computer Science
  - Bachelor’s, Master’s & PhD offered
- CS+ Computer Engineering
  - Bachelor’s
- CS+ Data Science
  - Bachelor’s
- CS+ Robotics & Intelligent Systems
  - Bachelor’s
- CS+ Research Honors
  - Bachelor’s
- CS+ Business
  - Bachelor’s

Internships & Career Opportunities

Students and graduates find positions in several different sectors, including technology, engineering and financial companies. Computing jobs are among the highest paid, and computing professionals generally report high job satisfaction.

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.

Degrees Offered

- Computer Science
- CS+ Computer Engineering
- CS+ Data Science
- CS+ Robotics & Intelligent Systems
- CS+ Research Honors
- CS+ Business

Internships, competitions and community service opportunities are available for students to explore the many career paths available to computer science graduates.

Minors

- Computer Science
- Computer Engineering
- Data Science
- Robotics & Intelligent Systems

Example CS Elective Courses

- Mobile applications
- Web programming
- Security and privacy
- Robotics
- Data science
- Artificial intelligence
- Machine learning

Women in Computer Science | Linux Users Group | K-12 Outreach | Industry Partner Program | ACM Tech Talks
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.

**FACULTY & RESEARCH**


Dr. Tracy Camp  
Networking, Education, Machine Learning

Dr. Neil Dantam  
Robotics

Dr. Wendy Fisher  
Machine Learning, Education

Dr. Qi Han  
Networking

Dr. William Hoff  
Robotics, Computer Vision

Dr. Dinesh Mehta  
Applied Algorithms

Dr. C. Painter-Wakefield  
Machine Learning

Dr. Jeffrey Paone  
Machine Learning

Dr. Hua Wang  
Machine Learning

Dr. Bo Wu  
High Performance Computing

Dr. Thomas Williams  
Robotics

Dr. Dejun Yang  
Networking, Mobile Sensing

Dr. Chuan Yue  
Security & Privacy

Dr. Hao Zhang  
Robotics