Overview
Today’s tech-dependent world is ripe with opportunities for those who have in-depth computer science knowledge. Rising software development needs across industries, a growing emphasis on cyber security, and an increase in cloud computing systems are just a few examples of trends driving demand for those with an advanced computer science education.

Through Colorado State University’s online Master of Computer Science degree program, you will learn from faculty with extensive research and development experience to gain in-depth knowledge in the following areas:

- Networking and security
- Parallel computing
- Software engineering
- Artificial Intelligence and machine learning
- Systems software
- Database systems

The CSU Computer Science Department supports high-quality research and encourages independent thinking and initiative. Our highly-qualified faculty enjoys teaching and research in the areas of Artificial Intelligence, Software Engineering, Computer Security and Networks, and Parallel and Embedded Systems.

Delivery
Online

Credits
35 credits

Tuition
$649 per credit; financial aid is available

Time Frame
Can be completed in 2 years

Degree Awarded
Master of Computer Science in Computer Science

Offered By
Department of Computer Science

Learn More
online.colostate.edu/degrees/computer-science

Contact our Student Success Team to get started! (970) 492-4898 online.colostate.edu/contact
Curriculum
The online courses follow a schedule parallel to courses offered on campus, are equivalent to the on-campus courses, are taught by the same CSU faculty, and carry the same academic credit. The curriculum is grouped by the semester courses are offered.

Fall
- CS 414 - Object-Oriented Design (4 cr.)
- CS 440 - Introduction to Artificial Intelligence (4 cr.)
- CS 457 - Computer Networks and the Internet (4 cr.)
- CS 475 - Parallel Programming (4 cr.)
- CS 514 - Software Product and Process Evaluation (4 cr.)
- CS 533 - Database Management Systems (4 cr.)
- CS 545 - Machine Learning (4 cr.)
- CS 560 - Foundations of Fine-Grain Parallelism (4 cr.)

Spring
- CS 470 - Computer Architecture (4 cr.)
- CS 517 - Software Specification and Design (4 cr.)
- CS 530 - Fault-Tolerant Computing (4 cr.)
- CS 540 - Artificial Intelligence (4 cr.)
- CS 556 - Computer Security (4 cr.)
- CS 557 - Advanced Networking (4 cr.)
- CS 575 - Parallel Processing (4 cr.)
- CS 580A5 - Software Testing and Analysis (4 cr.)

Summer
- CS 430 – Database Systems (4 cr.)

Minimum Admission Requirements
- A bachelor’s degree from a regionally accredited institution
- A demonstrated understanding of computer organization/architecture, data structures and algorithms, program/software design methodology, theoretical foundations, and operating systems design concepts
- A 3.0 GPA on all undergraduate coursework and a GPA of at least 3.2 in Computer Science and Mathematics coursework
- GRE test scores are recommended, but not required for admission

Completion Requirements
- A minimum of 35 semester credits; 20 of which must be earned at the 500-level or above
- 24 of those credits must be earned at Colorado State University, 21 of which must be earned after formal admission
- 14 credits may be earned at Colorado State before formal admission