

COMPUTER SCIENCE

Program Description

Computer science is the study of algorithms and the issues involved in implementing them. The **Bachelor's in Computer Science** includes core courses in algorithms, data structures, logic, programming languages, software design and advanced mathematics. Electives in web page design, artificial intelligence, robotics, computer graphics, video game design, databases, security, multimedia and networks are also possible. The program and course offerings are constantly evolving to keep up with the latest changes in the computer science field. The small class sizes at Colorado Mesa University allow for close interaction between faculty and students, with independent research projects and internships available.

A wide variety of professional and academic opportunities exist for graduates in the computer science field, including software engineering, software testing, computational finance, game design, computer graphics, robotics, artificial intelligence, internet systems and technology, security, hardware development, animation, medicine, biotechnology, business management and consulting and modeling, as well as master's and doctoral studies in computing-related fields. Graduates have continued on to advanced degrees in top tier schools and are employed at IBM, Microsoft, Northrup-Grumman, Lockheed-Martin and many other technical companies.

The **Associate of Science in Computer Science** with an emphasis in computer science includes courses in web page design, various programming languages, data structures and computer architecture. While the associate's degree prepares students to complete a Bachelor of Science in Computer Science (which is strongly recommended), employment opportunities are open to the successful graduate, including positions such as web developers, computer operators and technical support specialists.

A **Minor in Computer Science** is an excellent enhancement to degrees in the many fields which make extensive use of computer software, such as engineering, physics and mathematics, but also for non-science fields such as graphic arts, education or sociology. The degree prepares students to understand computer science foundations in software development and in hardware, as well as common application software development such as database software, graphical user interfaces and video game design.

The **Professional Certificate in Web Application Development** is designed for those who wish to develop in this popular field, and who may be either active professionals or new students to the field. The degree will prepare students in popular web programming languages such as JavaScript, as well as preparing the student to work with popular database programs necessary for most web applications today.

Contact Information

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Programs of Study Associates

- Computer Science, Liberal Arts (AS) (<http://catalog.coloradomesa.edu/areas-study/computer-science/computer-science-liberal-arts-as/>)

Bachelors/Minors

- Computer Science (BS) (<http://catalog.coloradomesa.edu/areas-study/computer-science/computer-science-bs/>)
- Computer Science (Minor) (<http://catalog.coloradomesa.edu/areas-study/computer-science/computer-science-minor/>)

Certificates

- Web Application Development (Professional Certificate) (<http://catalog.coloradomesa.edu/areas-study/computer-science/web-applications-development-professional-certificate/>)