

# COMPUTER SCIENCE

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## B.A., B.S., B.S./M.S., M.S. Degrees, Minor

Computer science is the study of software development, information handling and their application to the world's problems. Computing is widely used in support of science, engineering, business, law, medicine, education and the social sciences, and offers abundant employment opportunities.

The B.A., B.S. and M.S. degrees follow the recommendations of the Association for Computing Machinery and the Institute for Electrical and Electronic Engineers. The Computing Accreditation Commission of ABET accredits the B.S. degree.

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### B.A., B.S., COMPUTER SCIENCE

The computer science undergraduate program introduces the fundamentals of computer programming, hardware and theory. It emphasizes the application of general principles to real-world problems. The B.S. degrees provide students with deep mathematical abilities to analyze the meaning and efficiency of programs, while the B.A. is designed to provide students with a broader background in the uses of technology. Combining solid fundamentals with modern technology enables graduates to not only make full use of today's computers but to help build the future.

Minimum Requirements for Computer Science Bachelor's Degrees: B.A.: 120 credits; B.S.: 120 credits

Learn more about the bachelor's degree in computer science (<https://uaf.edu/academics/programs/bachelors/computer-science.php>), including an overview of the program, career opportunities and more.

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### ACCELERATED B.S./M.S., COMPUTER SCIENCE

The computer science undergraduate program introduces the fundamentals of computer programming, hardware and theory. It emphasizes the application of general principles to real-world problems. Mathematics and engineering play critical roles in the core. A solid background in fundamentals enables graduates to understand the uses of today's computers and to participate in future developments.

Minimum Requirements for Computer Science B.S./M.S. Degrees: 141 credits

Learn more about the bachelor's/master's degree in computer science (<https://uaf.edu/academics/programs/bachelors/computer-science-bs-ms.php>), including an overview of the program, career opportunities and more.

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### M.S., COMPUTER SCIENCE

The M.S. program provides breadth and depth in coursework and culminates with a major unifying project. This program is available to students who have completed a B.S. degree in computer science at most institutions. Students from other universities who have completed a substantial portion of a bachelor's level computer science program may be admitted to the M.S. program. In such cases, undergraduate courses may be required to remedy deficiencies.

For admission to the M.S. computer science program, the GRE general and computer science subject exams are required.

Minimum Requirements for Computer Science Master's Degree: 30 credits

Learn more about the master's degree in computer science (<https://www.cs.uaf.edu/graduate/steps-ms-degree/>).

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#### College of Engineering and Mines

Department of Computer Science (<https://www.cs.uaf.edu/>)  
907-474-2777

## Programs Degrees

- B.A., Computer Science (<https://catalog.uaf.edu/bachelors/computer-science-ba/>)
- B.S., Computer Science (<https://catalog.uaf.edu/bachelors/computer-science-bs/>)
- Accelerated B.S./M.S., Computer Science (<https://catalog.uaf.edu/accelerated-programs/computer-science-bs-ms/>)
- M.S., Computer Science (<https://catalog.uaf.edu/masters/computer-science/>)

## Minor

- Minor, Computer Science (<https://catalog.uaf.edu/minors/computer-science/>)