

COMPUTER SCIENCE

The growing utility of computers in research and education, as well as the increased impact of computers on our modern society, strongly implies that knowledge of computers and their capabilities should be a part of the basic education of all students. The courses listed below are designed to provide the student with this knowledge and to prepare the student for a career in a field in which there is a growing need for trained personnel. The objective of the undergraduate curriculum in computer science is to develop professionally competent, broadly educated computer scientists who wish to pursue professional careers or graduate studies.

The B.S. program is accredited by the Computing Accreditation Commission of ABET (<https://www.abet.org/>).

High School Preparation: In addition to general University admission requirements, pre-college preparation should include as many computer science courses as possible, and four years of high school mathematics, to include algebra, trigonometry and pre-calculus. Also recommended are physics, chemistry and biology.

Admission Requirements

Admission to computer science courses varies according to course level and other departmental standards. However, students must have completed all prerequisite courses with a grade of at least a "C-".

Lower-Division Courses

Most 100- and 200-level courses are open on a first-come, first-served basis to all students who have the prerequisites.

Upper-Division Courses

Admission to 300-level or above courses requires successful completion of the prerequisites.

Major-Minor Status

Completed change of major forms along with college transcripts must be turned in to the department when declaring computer science as a major or minor.

Baccalaureate Degrees

- Computer Science B.S., with concentrations in:
 - Software Engineering (<http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/computer-science/bs-computer-science-software-engineering/>)
 - Data Science (<http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/computer-science/bs-computer-science-data-science/>)
 - Algorithm Design (<http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/computer-science/bs-computer-science-algorithm-design/>)
- Computer Science-Mathematical Sciences B.S. Combined Major (<http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/computer-science/bs-combined-math-computer-science/>)

Minors

- Computer Science Minor (<http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/computer-science/minor-computer-science/>)

Undergraduate Certificates

- Computer Programming Certificate (<http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/computer-science/cert-computer-programming/>)