



COMPUTER SCIENCE

Itasca Community College-University of Minnesota, Duluth

Computer science is a discipline that requires understanding the design of computers and computational processes. The B.S. in computer science is an accredited, four-year program that provides a solid foundation in mathematics and statistics, computational problem solving, software design and analysis, computer theory, programming languages, algorithms, data structures, and computer organization and architecture. The program also requires that students acquire significant knowledge in several sub disciplines of computer science, thus enabling them to apply and situate their knowledge of computer science fundamentals. Goals of the learning process include highly developed programming skills, an understanding of the context in which computing activities occur, and an ability to communicate effectively. The program provides the necessary foundational studies for student preparing for graduate school as well as those seeking careers in industry. The program is accredited by the computing Accreditation Commission of Accreditation Board for Engineering and Technology.

Only minimum major course requirements are listed; students will complete their program (64 credits) by taking general education classes within the Associate in Arts (AA) degree. The AA degree fulfills UMD's general education requirement.

				<u>Credits</u>
*	CSci	1201	Beginning Computer Programming	3
	CSci	1205	C++ Programming	3
	Engl	1101	Expository Writing	4
	Math	1122	Calculus I	5
	Math	1123	Calculus II	5
	Math	2102	Multivariable Calculus	4
**	Math	2101	Diff Q with Linear Algebra	5
	Phys	1201	General Physics (Fall)	5
	Phys	1202	General Physics (Spring)	4
	Spch	1105	Fund of Public Speaking	3

* Adequate high school preparation may substitute for Computer Science course. Computer Science 1201 is not accepted for major credit at UMD.

** Not required, but recommended (major elective).

NOTE: Students must complete an upper division (junior-senior) writing course at UMD.

Completing the Associate of Arts degree at Itasca will satisfy UMD's general education requirement.

Students entering UMD who indicated a major in computer science will be admitted as pre-computer science students. Admission to candidacy is on a competitive basis, with primary consideration given to overall grade point average and to grade point average in computer science and mathematics courses. Information about application procedures may be obtained from Department of Mathematical Sciences, Heller Hall.

The Minnesota Transfer Curriculum and Itasca's Associate in Arts Degree

The public higher education colleges and universities in Minnesota have developed a common liberal education curriculum called the **Minnesota Transfer Curriculum**. Students who complete the Associate in Arts degree at Itasca Community College will have automatically met all Minnesota Transfer Curriculum requirements. Students desiring to complete the Minnesota Transfer Curriculum requirements and then transfer without the Associate in Arts degree may pick up a MNTC checksheet in the Counseling and Career Center. For questions regarding the Minnesota Transfer Curriculum, please see an ICC counselor.

Visit UMD on the world wide web at: www.d.umn.edu

Itasca Community College is an equal opportunity educator/employer.
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