



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.

Students following the suggested course schedule below indicate that they are pursuing the Associate in Arts degree at Itasca Community College (ICC) with the intent to transfer to the above named institution. The purpose of this transfer guide is to provide a sequenced curriculum of courses recommended by the receiving institution taken within the Associate in Arts degree at ICC.

*Note: Courses numbered below 1000 and courses with a “D” grade or lower do NOT transfer.

Fall				Spring			
Engl	1101	Expository Writing	4	*CSci	1201	Beginning Computer Programming	3
Math	1122	Calc I	4	Engl	1113	Research Writing	3
Soc Sci	Gen Ed		3	Math	1123	Calc II	4
Humanities	Gen Ed		3	Phys	1201	Physics I	4
				Spch	1105	Public Speaking	3
Fall				Spring			
Math	2102	Multi-Var Calc	4	CSci	1205	C++ Programming	3
PE	1201	Wellness	2	**Math	2102	Diff Q with Linear Algebra	4
Phys	1202	Physics II	4	PE	Activity		1
Soc Sci	Gen Ed		3	Soc Sci	Gen Ed		3
Humanities	Gen Ed		3	Humanities	Gen Ed		3
				Electives			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. **Visit UMD on the world wide web at: www.d.umn.edu**

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. **Those students not pursuing an Associate degree at Itasca are not eligible for state or federal financial aid.**

Itasca Community College is an equal opportunity educator/employer.
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