

**Mesabi Range Community and Technical College
University of Minnesota, Duluth**

2 + 2 Program in Computer Science

Listed below are the courses offered at Mesabi Community College that apply to the Bachelor of Science in Computer Science at the University of Minnesota, Duluth. After successful completion of the listed Mesabi courses, students may complete UMD's B.S. in Computer Science with an additional two years of full-time study.

Mesabi Community College Courses to Complete	cr	UMD requirement satisfied by Mesabi course	cr
Engl 1511 College Writing I	4	Comp 1120 College Writing	3
Spch 1555 Public Speaking	3	Comm 1112 Public Speaking	3
CSci 2467 Advanced Pascal Program & Alg	3	CS 1511 Computer Science I	5
CSci 2471 "C" Language	3	CS 1521 Computer Science II	5
CSci 2472 Advanced "C" Language	3		
LAB SCIENCE SEQUENCE Choose 2-semester sequence from: Chem 1522 General Chemistry I - Chem 1523 General Chemistry II OR Biol 1551 College Biology Biol 1552 College Biology OR Phys 1571, 1581 Engineering Physics I Phys 1572, 1582 Engineering Physics II	10	LAB SCIENCE SEQUENCE Chem 1522 General Chemistry Chem 1523 General Chemistry OR Biol 1011 General Biology I Biol 10 12 General Biology II OR Phys 1201 Mechanics Phys 1204 Electricity, Magnetism, Optics	10
ADDITION LAB SCIENCE Choose from: Chem 1522, Biol 1551, Phys 1571 not taken as part of sequence	5	ADDITIONAL LAB SCIENCE for science/engineering majors	5
Math 1561 Calculus I	5	Math 1296 Calculus I	5
Math 1562 Calculus II	5	Math 1297 Calculus II	5
Liberal Education courses	27	Liberal Education courses	

Courses to be Completed at UMD:

ECE 1315 Digital System Design, 4 cr
CS 2111 Intro to Programming in C++, 3 cr
CS 2511 Software Development, 4 cr
CS 2521 Computer Organization, 4 cr
CS 4521 Advanced Data Structures, 4 cr
CS Electives
Math 3320 Intro to Linear Algebra, 3 cr

Math 3355 Discrete Math, 4 cr
Math elective
Stat 3611 Probability & Statistics, 4 cr
Phil 3242 Values and Technology, 3 cr
Comp 31xx Advanced Writing, 3 cr
Minor field courses

Bachelor of Science in Computer Science:

The computer industry has been growing rapidly over the past 20 years and the use of computers is now indispensable in the operations of virtually all medium and large business firms, governmental agencies, scientific research establishments, hospitals, and most other institutions. UMD's B.S. in Computer Science is designed to give the student a thorough introduction to contemporary computer science while allowing sufficient flexibility to pursue individual interests.

Further Information:

Department of Computer Science

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