Metropolitan State University OF DENVER
College of Health and Applied Sciences

Department of Computer Sciences, B.S.
Minor (not required)
Fall 2023 Catalog Year

First Year		
Fall: 14 Credits	CS 1030: Computer Science Principles	4
	COMM 1010: Presentational Speaking or COMM 1100: Fundamentals of Oral Communication	3
	ENG 1010: Composing Arguments	3
	MTH 1410: Calculus I	4
		14
Spring: 15 Credits	ENG 1020: Research and Argument Writing	3
	CS 1050: Computer Science I	4
	CS 1400: Computer Organization I	4
	MTH 3210: Probability and Statistics	4
		15

Second Year		
Fall: 15 Credits	Art and Humanities General Studies Requirement	3
	CS 2050: Computer Science II	4
	CS 2400: Computer Organization II	4
	MTH 3130: Applied Methods in Linear Algebra	4
		15
Spring: 13-15 Credits	CS 2240: Discrete Structures for Computer Science	2
	Social and Behavioral Science	3
	JMP 2610: Intro to Technical Writing	3
	Natural & Physical Science, See Accepted Science Courses	3-5
		13-15

Third Year		
Fall: 14-16 Credits	CS 3240: Introduction to the Theory of Computation	2
	CS 3250: Software Development Methods and Tools	4
	Natural & Physical Science, See Accepted Science Courses	3-5
	Historical + Multicultural Requirement	3
		14-16
Spring: 15 Credits	CS 3210: Principles of Programming Languages	4
	CS 3600: Operating Systems	4
	PHI 3370: Computers, Ethics, and Society	4
	Social and Behavioral Science + Global Diversity Requirement	3
		15

Fourth Year		
Fall: 16 Credits	CS 4050: Algorithms Analysis	4
	CS 3700: Networks and Distributed Computing	4
	CS Upper Division Elective	4
	CS Upper Division Elective	4
		16
Spring: 14 Credits	CS 4360 Senior Experience in Computer Science	4
	CS Upper Division Elective	4
	Arts and Humanities General Studies Requirement	3
	Free Elective	3
		14

1. This is not the only ordering of classes, but classes must be taken in an order that satisfies the prerequisites for subsequent classes.

2. All Prerequisite and Major/Minor/ Ancillary courses require a C- or greater.

3. A minimum of 6 credits are needed to meet the Science Requirement.

4. Take Free Electives as needed to meet the total 120 credit requirement.

5. Certain classes may be taken earlier if prerequisites are met.