MSU DENVER COLLEGE OF AEROSPACE, COMPUTING, ENGINEERING, AND DESIGN

Computer Science Major, B.S.
Minor (not required)
Fall 2025 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
	ENG1010: Composing Arguments	3
	MTH1110: MTH College Algebra for Calculus	4
		14
Spring: 17 Credits	ENG 1020: Research and Argument Writing	3
	CS 1050: Computer Science I	4
	CS 1400: Computer Organization	4
	MTH1120: College Trigonmetry	3
	Social and Behavioral Science + Global Diversity	3
		17

Second Year		
Fall: 15 Credits	PHI 3370: Computers, Ethics, and Society	3
	CS 2050: Computer Science II	4
	CS 2400: Assembly Lang Prog & Intro to HPC	4
	MTH1410: Calculus I	4
		15
Spring: 14-16 Credits	CS 2240: Discrete Structures of CS	4
	CS 3250: Software Development Methods and Tools	4
	JMP 2610: Intro to Technical Writing	3
	Nat'l. Phy. Sci, See Accepted Science Courses in Major Req.	3-5
		14-16

Third Year		
Fall: 13-15 Credits	CS 3240: Introduction to the Theory of Computation	2
	CS 3600: Operating Systems	4
	MTH 3120: Probability and Statistics	4
	Nat'l. Phy. Sci, See Accepted Science Courses in Major Req.	3-5
		13-15
Spring: 15 Credits	CS 3210: Principles of Programming Languages	4
	CS 3700: Networks and Distributed Computing	4
	Social and Behavioral Science General Studies Requirement	3
	MTH 3130: Applied Methods in Linear Algebra	4
		15

Fourth Year		
Fall: 15 Credits	CS 4050: Algorithms Analysis	4
	CS Upper Division Elective	4
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	Free Elective	3
		15
Spring: 14 Credits	CS 4360: Senior Experience in Computer Science	4
	CS Upper Division Elective	4
	Arts and Humanities	3
	Historical + ESSJ	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.