



METROPOLITAN STATE UNIVERSITYSM
OF DENVER
College of Professional Studies

Advanced Manufacturing Sciences, B.S. Computer Science Concentration
 Minor (not required)
 Fall 2017 catalog year

First Year		
Fall: 16 Credits	Written Communication (3)	
	MTH 1110 (4) College Algebra	
	Oral Communication (3)	
	AMS 1010 (3) Sur. of Adv. Manufacturing & Workplace Preparation	
	IND 1450 (3) OR CET 1215 (3) or MET 1200 (3)	
Spring: 16 Credits	Written Communication (3)	
	MTH 1120 (3) Trigonometry	
	EET 1001 (3) Electronics: An Introduction	
	MET 1010 (3) OR IND 2830 (3)	
	CS 1050 (4) Computer Science I	

Second Year		
Fall: 14 Credits	CS 1400 (4) Computer Organization I	
	COM 2610 (3) Introduction to Technical Writing	
	MET 1310 (3) Principles of Quality Assurance	
	MTH 1410 (4) Calculus I	
Spring: 15 Credits	CET 3120 (3) Engineering Economy	
	CIS 2010 (3) Foundations of Info. Systems	
	MTH 2140 (2) Computational Matrix Algebra	
	Arts and Humanities (3)-select course approved for Multicultural	
	Natural & Physical Sciences (1)***	
Social and Behavioral Sciences II (3)**		

*PHI 1030-Ethics is recommended
 **ECO 2020-Microeconomics is recommended
 *** PHY 1020-Physics for Advanced Technology is recommended

Third Year		
Fall: 16 Credits	Arts and Humanities (3)*	
	CS 2050 (4) Computer Science II	
	CS 2400 (4) Computer Organization II	
	PHY 2010 (4) & PHY 2030 (1) College Physics I & Lab	
Spring: 15 Credits	CS 3000 (4) Computing for Adv. Manufacturing	
	CS 3140 (4) Human Computer Interaction	
	CS 3410 (4) Embedded Systems	
	Historical (3)-select course approved for Global Div.	

Fourth Year		
Fall: 15 Credits	CS 3510 (4) Computer Graphics	
	CS 3600 (4) Operating Systems	
	MET 3000 (4) Manufacturing Analysis	
	MGT 3000 (3) Organizational Management	
Spring: 13 Credits	AMS 4950 (3-6) Professional Internship	
	Approved Major Electives (10)****	

****Students need to complete 10-credits of AMS advisor approved electives. A minimum of 7 credits of electives must be upper-division. All students are required to complete 40-credits of upper-division to graduate.