



METROPOLITAN STATE UNIVERSITYSM

OF DENVER

College of Professional Studies

Advanced Manufacturing Sciences, B.S.- Computer Science Concentration

Minor (not required)

Catalog Year: 2016-17

First Year		
Fall: 16 Credits	ENG 1010 (3) Composing Arguments Or ENG 1009	
	MTH 1110 (4) College Algebra	
	Oral Communication (3)	
	AMS 1010 (3) Survey of Advanced Manufacturing	
	IND 1450 (3) OR CET 1215 (3) or MET 1200 (3)	
Spring: 16 Credits	ENG 1020 (3) Freshman Comp: Anly, Rsrch, & Doc.	
	MTH 1120 (3) Trigonometry	
	EET 1001 (3) Electronics: An Introduction	
	MET 1010 (3) OR IND 2830 (3)	
	CS 1050 (4) Computer Science I	

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.	

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)**	

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

*PHI 1030-Ethics is recommended

**ECO 2020-Microeconomics is recommended

*** PHY 1020-Physics for Advanced Technology is recommended

****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.