



**METROPOLITAN STATE UNIVERSITY™**  
**OF DENVER**  
**College of Professional Studies**

Advanced Manufacturing Sciences, B.S. - Computer Science Concentration  
 Minor (Not Required)  
 2018 - 2019 Catalog Year

First Year		
Fall: 16 Credits	Written Communication (3)	
	Oral Communication (3)	
	MTH 1110 (4) College Algebra for Calculus	
	PHI 1030 (3) Introduction to Ethics (Recommended)	
	EET 1001 (3) Electronics: An Introduction	
Spring: 16 Credits	Written Communication (3)	
	AMS 1010 (3) Survey of Adv Manuf & Workplace Prep	
	IND 1450 or CET 1215 or MET 1200 (3)	
	CIS 1010 (3) Introduction to Computers*	
	CS 1050 (4) Computer Science 1	

Third Year		
Fall: 13 Credits	Art and Humanities (3) MC or GD recommended	
	COM 2610 (3) Introduction to Technical Writing	
	MTH 2140 (2) Computational Matrix Algebra	
	CS 3250 (4) SW Dev Methods and Tools*	
Spring: 14 Credits	Historical (3) MC or GD recommended	
	ECO 2020 (3) Principles of Microeconomics (Recommended)	
	CSS 3000 (4) Computing for Adv Manufacturing	
	CS 3600 (4) Operating Systems	

Second Year		
Fall: 17 Credits	CIS 2010 (3) Foundation of Information Systems	
	MET 1010 or IND 2830 (3)	
	MTH 1120 (3) College Trigonometry	
	CS 1400 (4) Computer Organization 1	
	CS 2050 (4) Computer Science 2	
Spring: 16 Credits	PHY 2010 (4) College Physics I <b>AND</b>	
	PHY 2030 (1) College Physics Laboratory	
	MET 1310 (3) Principles of Quality Assurance	
	CS 2400 (4) Computer Organization 2	
	MTH 1410 (4) Calculus I	

Fourth Year		
Fall: 15 Credits	MET 3000 (4) Manufacturing Analysis	
	MGT 3000 (3) Organizational Management	
	CS 3410 (4) Embedded Systems	
	CS 3510 (4) Computer Graphics	
Spring: 13 Credits	CET 3120 (3) Engineering Economy	
	AMS 4950 (3) Professional Internship	
	CS 3140 (4) Human Computer Interaction	
	CS 3750 (3) Computer and Network Security	

\*Students need to complete 7 credits of AMS advisor approved electives. A minimum of 4 credits of electives must be Upper Division (3000 or 4000 level). All students are required to complete 40 credits of Upper Division to graduate. *NOTE: If not a transfer student, may need to complete an additional 1-credit of GS Natural & Physical Sciences*