



**METROPOLITAN STATE UNIVERSITY<sup>SM</sup>**  
**OF DENVER**

**College of Professional Studies**

Advanced Manufacturing Sciences, B.S. - Computer Information Systems Concentration  
 Minor (Not Required)  
 2019 - 2020 Catalog Year

First Year		
Fall: 13 Credits	ENG 1010 (3) Composing Arguments	
	Oral Communication (3)	
	MTH 1110 (4) College Algebra	
	PHI 1030 (3) Introduction to Ethics (Recommended)	
Spring: 15 Credits	ENG 1020 (3) Research and Argument Writing	
	Historical (3) MC or GD recommended	
	AMS 1010 (3) Survey of Adv Manuf & Workplace Prep	
	MET 1010 (3) Manufacturing Processes (Recommended) <b>OR</b>	
	CIS 1010 (3) Introduction to Computers*	

Third Year		
Fall: 16 Credits	CET 3120 (3) Engineering Economy	
	AMS 3010 (3) Additive Manufacturing Strasys Cert Prep	
	MET 3000 (4) Manufacturing Analysis	
	CIS 3050 (3) Fundamentals of Systems Analysis and Design	
	CIS 3060 (3) Database Management Systems	
Spring: 15 Credits	CSS 1751 (3) Computing and Security for Manufacturing	
	MET 2010 (3) CNC Machining and Inspection	
	CIS 3230 (3) Telecommunication Systems and Networking	
	Advisor Approved Elective* or MGT 3000 (3) Org Management	
	Advisor Approved Elective*	

Second Year		
Fall: 15 Credits	Art and Humanities (3) MC or GD recommended	
	EET 1001 (3) Electronics: An Introduction	
	MET 1200 (3) Technical Drawing I (Recommended) <b>OR</b>	
	IND 1450 (3) Technical Drawing and CAD <b>OR</b>	
	CET 1215 (3) Engineering Graphics	
	MTH 1120 (3) College Trigonometry	
CIS 2010 (3) Foundations of Information Systems		
Spring: 17 Credits	ECO 2020 (3) Principles of Microeconomics (Recommended)	
	PHY 2010 (4) College Physics I	
	PHY 2030 (1) College Physics Laboratory	
	JMP 2610 (3) Introduction to Technical Writing	
	MET 1310 (3) Principles of Quality Assurance	
	CIS 2110 (3) Structured Problem Solving in Information Systems	

Fourth Year		
Fall: 15 Credits	CIS 3490 (3) Managing Business Info with Enterprise Systems	
	CIS 3500 (3) Information Systems Security	
	CIS 4260 (3) Database Administration	
	MGT 3000 (3) Org Management or Advisor Approved Elective*	
	Advisor Approved Elective*	
Spring: 15 Credits	AMS 4950 (3) Professional Internship	
	CIS 4410 (3) Management Information Systems	
	Advisor Approved Elective*	
	Advisor Approved Elective*	
	Advisor Approved Elective*	

\*Students need to complete 22 credits of AMS advisor approved electives. A minimum of 3 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*