



METROPOLITAN STATE UNIVERSITYSM

OF DENVER

College of Professional Studies

Advanced Manufacturing Sciences, B.S.- Industrial Design 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: 15 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)	
	Approved Major Electives (3)****	

Second Year		
Fall: 15 Credits	Arts and Humanities (3)*	
	COM 2610 (3) Introduction to Technical Writing	
	Historical (3)-select course approved for Global Div.	
	IND 1130 (3) Plastics: Materials and Fabrication	
	MET 1310 (3) Principles of Quality Assurance	
Spring: 14 Credits	CIS 2010 (3) Foundations of Info. Systems	
	PHY 2010 (4) & PHY 2030 (1) College Physics I & Lab	
	Social and Behavioral Sciences II (3)**	
	Arts and Humanities (3)-select course approved for Multicultural	

Third Year		
Fall: 14 Credits	CET 3120 (3) Engineering Economy	
	CS 3000 (4) Computing for Advanced Manufacturing	
	IND 3000 (3) Design Thinking	
	IND 3100 (3) Composites: Materials and Fabrication	
	Natural & Physical Sciences (1)***	
Spring: 15 Credits	IND 3660 (3) Computer Aided Modeling	
	IND 3400 (3) Product Usability and Ergonomics	
	Approved Major Electives (9)****	

Fourth Year		
Fall: 16 Credits	IND 3260 (3) Direct Digital Manufacturing	
	MET 3000 (4) Advanced Manufacturing Analysis	
	MGT 3000 (3) Organizational Management	
	Approved Major electives (6)****	
Spring: 15 Credits	AMS 4950 (3-6) Professional Internship	
	IND 3680 (3) Computer Modeling for Manufacturing	
	IND 4200 (3) Utilization of Composites in Manuf.	
	Approved Major Electives (6)****	

*PHI 1030-Ethics is recommended

**ECO 2020 Microeconomics is recommended

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

****Students need to complete 24-credits of AMS advisor approved electives. A minimum of 2 credits of electives must be upper-division. All students are required to complete 40-credits of upper-division to graduate.