



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

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

First Year		
Fall: 13 Credits	Written Communication (3)	
	Oral Communication (3)	
	MTH 1110 (4) College Algebra for Calculus	
	PHI 1030 (3) Introduction to Ethics (Recommended)	
Spring: 15 Credits	Written Communication (3)	
	Historical (3) MC or GD recommended	
	AMS 1010 (3) Survey of Advanced Manuf & Workplace Prep	
	IND 1450 or CET 1215 or MET 1200 (3)	
	CIS 1010 (3) Introduction to Computers*	

Third Year		
Fall: 16 Credits	CET 3120 (3) Engineering Economy	
	MET 3000 (4) Manufacturing Analysis	
	MGT 3000 (3) Organizational Management	
	IND 3400 (3) Product Usability and Ergonomics	
	Advisor Approved Elective* (3)	
Spring: 16 Credits	CSS 3000 (4) Computing for Advanced Manufacturing	
	IND 3000 (3) Design Thinking	
	IND 3100 (3) Composites: Materials and Fabrication	
	Advisor Approved Elective* (3)	
	Advisor Approved Elective* (3)	

Second Year		
Fall: 15 Credits	Art and Humanities (3) MC or GD recommended	
	CIS 2010 (3) Foundation of Information Systems	
	EET 1001 (3) Electronics: An Introduction	
	MET 1010 or IND 2830 (3)	
	MTH 1120 (3) College Trigonometry	
Spring: 17 Credits	PHY 2010 (4) College Physics I <b>AND</b>	
	PHY 2030 (1) College Physics Laboratory	
	ECO 2020 (3) Principles of Microeconomics (Recommended)	
	COM 2610 (3) Introduction to Technical Writing	
	IND 1130 (3) Plastics: Materials and Fabrication	

Fourth Year		
Fall: 15 Credits	IND 3260 (3) Direct Digital Manufacturing	
	IND 3660 (3) Computer Aided Modeling	
	Advisor Approved Elective* (3)	
	Advisor Approved Elective* (3)	
	Advisor Approved Elective* (3)	
Spring: 12 Credits	AMS 4950 (3) Professional Internship	
	IND 3680 (3) Computer Modeling for Manufacturing	
	IND 4200 (3) Utilization of Composites in Manufacturing	
	Advisor Approved Elective*(3)	

\*Students need to complete 24 credits of AMS advisor approved electives. A minimum of 2 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*