



METROPOLITAN STATE UNIVERSITYSM
OF DENVER
College of Professional Studies

Advanced Manufacturing Sciences, B.S. - Industrial Design Concentration
 Minor (Not Required)
 2020 - 2021 Catalog Year

First Year		
Fall: 13 Credits	ENG 1010 Composing Arguments	3
	Oral Communication	3
	MTH 1110 College Algebra	4
	PHI 1030 Introduction to Ethics (Recommended)	3
Spring: 15 Credits	ENG 1020 Research and Argument Writing	3
	Historical (MC or GD)	3
	AMS 1010 Survey of Adv Manuf & Workplace Prep	3
	MET 1010 (Recommended) or IND 2830	3
	MTH 1120 College Trigonometry	3

Third Year		
Fall: 16 Credits	CET 3120 Engineering Economy	3
	AMS 3010 Additive Manufacturing Stratasys Cert Prep	3
	MET 3000 Manufacturing Analysis	4
	IND 2100 Digital Composition	3
	IND 2455 Industrial Design Studio for Non-Majors	3
Spring: 15 Credits	CSS 1751 Computing and Security for Manufacturing	3
	MET 2010 CNC Machining and Inspection	3
	IND 3000 Design Thinking or Any 3000-4000 IND	3
	IND 3100 Composites: Materials and Fabrication	3
	Advisor Approved Elective*	3

Second Year		
Fall: 15 Credits	Art and Humanities (MC or GD)	3
	PHY 2010 College Physics I	4
	PHY 2030 College Physics Laboratory	1
	EET 1001 Electronics: An Introduction	3
	MET 1200 (Recommended) or IND 1450 or CET 1215	3
	IND 1000 Introduction to Industrial Design	1
Spring: 15 Credits	ECO 2020 Principles of Microeconomics (Recommended)	3
	JMP 2610 Introduction to Technical Writing	3
	MET 1310 Principles of Quality Assurance	3
	IND 1130 Plastics: Materials and Fabrication	3
	IND 1470 Design Drawing Techniques	3

Fourth Year		
Fall: 15 Credits	IND 3260 Dir Digital Manufacturing or Any 3000-4000 IND	3
	IND 3400 Product Usability and Ergonomics	3
	Advisor Approved Elective*	3
	Advisor Approved Elective*	3
	Advisor Approved Elective*	3
Spring: 15 Credits	AMS 4950 Professional Internship	3
	IND 3660 Computer Aided Modeling	3
	Advisor Approved Elective*	3
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	Advisor Approved Elective*	3

*Students need to complete 21 credits of AMS advisor approved electives. A minimum of 12 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*

KEY:

General Studies/AMS Required Prerequisites
 AMS Core Courses

Concentration Required Courses
 AMS Advisor Approved Electives