



METROPOLITAN STATE UNIVERSITY
OF DENVER

College of Professional Studies

Advanced Manufacturing Sciences, B.S. - Mechanical Engineering Technology Concentration
Minor (Not Required)
2019 - 2020 Catalog Year

First Year	
Fall: 16 Credits	ENG 1010 (3) Composing Arguments
	Oral Communication (3)
	MTH 1110 (4) College Algebra
	PHI 1030 (3) Introduction to Ethics (Recommended)
	MET 1010 (3) Manufacturing Processes (Recommended) OR IND 2830 (3) Manufacturing Materials and Processes
Spring: 14 Credits	ENG 1020 (3) Research and Argument Writing
	AMS 1010 (3) Survey of Adv Manuf & Workplace Prep
	MTH 1120 (3) College Trigonometry
	CHE 1100 (4) Principles of Chemistry
	CHE 1150 (1) Principles of Chemistry Laboratory

Third Year	
Fall: 16 Credits	ECO 2020 (3) Principles of Microeconomics (Recommended)
	AMS 3010 (3) Additive Manufacturing Stratasys Cert Prep
	MET 3000 (4) Manufacturing Analysis
	MET 3215 (3) Composites Manufacturing
	Advisor Approved Elective*
Spring: 15 Credits	Art and Humanities (3) MC or GD recommended
	CET 3120 (3) Engineering Economy
	MET 3300 (3) Statistical Process Control or Any 3000-4000 MET
	MET 3630 (3) Lean Manuf Sys Eng or Any 3000-4000 MET
	Advisor Approved Elective*

Second Year	
Fall: 15 Credits	PHY 2010 (4) College Physics I
	PHY 2030 (1) College Physics Laboratory
	EET 1001 (3) Electronics: An Introduction
	MET 1200 (3) Technical Drawing I (Recommended) OR IND 1450 (3) Technical Drawing and CAD OR CET 1215 (3) Engineering Graphics
	MTH 1410 (4) Calculus I
Spring: 15 Credits	Historical (3) MC or GD recommended
	MET 1310 (3) Principles of Quality Assurance
	MET 2010 (3) CNC Machining and Inspection
	MET 1210 (3) 3D Modeling
	MET 2200 (3) Materials of Engineering

Fourth Year	
Fall: 15 Credits	JMP 2610 (3) Introduction to Technical Writing
	MET 3250 (3) Tool Design and Production Tooling
	MET 3410 (3) Geometric Dimensioning and Tolerancing
	MET 3260 (3) Direct Digital Manufacturing
	CIS 1010 (3) Introduction to Computers
Spring: 15 Credits	CSS 1751 (3) Computing and Security for Manufacturing
	AMS 4950 (3) Professional Internship
	MET 3735 (3) Comp Integrated Manuf or Any 3000-4000 MET
	Advisor Approved Elective*
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*Students need to complete 13 credits of AMS advisor approved electives. A minimum of 6 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*