



**METROPOLITAN STATE UNIVERSITY<sup>SM</sup>**  
**OF DENVER**  
**College of Professional Studies**

Advanced Manufacturing Sciences, B.S. - Civil Engineering Technology 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
	CET 3100 Construction Methods	3
	Advisor Approved Elective*	3
Spring: 15 Credits	CSS 1751 Computing and Security for Manufacturing	3
	MET 2010 CNC Machining and Inspection	3
	Advisor Approved Elective*	3
	Advisor Approved Elective*	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
	Advisor Approved Elective*	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
	ARCH 2003 Building Structures	3
	Advisor Approved Elective*	3

Fourth Year		
Fall: 15 Credits	CET 3110 Construction Estimating	3
	CET 4150 Highway Engineering and Surveying	3
	Advisor Approved Elective*	3
	Advisor Approved Elective*	3
	Advisor Approved Elective*	3
Spring: 15 Credits	AMS 4950 Professional Internship	3
	CET 4570 Engineering Law	3
	Advisor Approved Elective*	3
	Advisor Approved Elective*	3
	Advisor Approved Elective*	3

\*Students need to complete 34 credits of AMS advisor approved electives. A minimum of 15 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 Sci*

KEY:

 General Studies/AMS Required Prerequisites  
 AMS Core Courses

 Concentration Required Courses  
 AMS Advisor Approved Electives