



**METROPOLITAN STATE UNIVERSITY<sup>SM</sup>**  
**OF DENVER**

**College of Professional Studies**

Advanced Manufacturing Sciences, B.S.- Civil Engineering/Construction Concentration

Minor (not required)

Fall 2017 catalog year

First Year	
Fall: 16 Credits	Written Communication (3)
	MTH 1110 (4) College Algebra
	Oral Communication (3)
	AMS 1010 (3) Sur. of Adv. Manufacturing & Workplace Preparation
	IND 1450 (3) OR CET 1215 (3) or MET 1200 (3)
Spring: 15 Credits	Written Communication (3)
	MTH 1120 (3) Trigonometry
	EET 1001 (3) Electronics: An Introduction
	MET 1010 (3) OR IND 2830 (3)
	ARCH 2003 (3) Building Structures

Third Year	
Fall: 14 Credits	CET 3100 (3) Construction Methods
	CS 3000 (4) Computing for Adv. Manufacturing
	MET 3000 (4) Manufacturing Analysis
	Approved Major Electives (3)****
Spring: 15 Credits	CET 3110 (3) Construction Estimating
	MGT 3000 (3) Organizational Management
	Approved Major Electives (6)****
	Arts and Humanities (3)*

Second Year	
Fall: 14 Credits	PHY 2010 (4) & PHY 2030 (1) College Physics I & Lab
	COM 2610 (3) Introduction to Technical Writing
	MET 1310 (3) Principles of Quality Assurance
	Historical (3)-select course approved for Global Div.
Spring: 16 Credits	CET 3120 (3) Engineering Economy
	CIS 2010 (3) Foundations of Info. Systems
	Arts and Humanities (3)-select course approved for Multicultural
	Natural & Physical Sciences (1)***
	Social and Behavioral Sciences II (3)**
	Approved Major Electives (3)****

Fourth Year	
Fall: 15 Credits	CET 4150 (3) Highway Engineering & Surveying
	CET 4570 (3) Engineering Law
	Approved Major Electives (9)****
Spring: 15 Credits	AMS 4950 (3-6) Professional Internship
	Approved Major Electives (12)****

\*PHI 1030-Ethics is recommended

\*\*ECO 2020 Microeconomics is recommended

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

\*\*\*\*Students need to complete 33-credits of AMS advisor approved electives. A minimum of 11 credits of electives must be upper-division. All students are required to complete 40-credits of upper-division to graduate.