



# METROPOLITAN STATE UNIVERSITY<sup>SM</sup>

OF DENVER

## College of Professional Studies

Advanced Manufacturing Sciences, B.S.-Aerospace Concentration

Minor (not required)

Catalog Year: 2016-17

First Year		
Fall: 16 Credits	ENG 1010 (3) Composing Arguments Or ENG 1009	
	MTH 1110 (4) College Algebra	
	Oral Communication (3)	
	AMS 1010 (3) Survey of Advanced Manufacturing	
	AES 1050 (3) Introduction to Space	
Spring: 15 Credits	ENG 1020 (3) Freshman Comp: Anly, Rsrch, & Doc.	
	MTH 1120 (3) Trigonometry	
	EET 1001 (3) Electronics: An Introduction	
	IND 1450 (3) OR CET 1215 (3) or MET 1200 (3)	
	MET 1010 (3) OR IND 2830 (3)	

Third Year		
Fall: 14 Credits	AES 3600 (3) Space Flight Op. I	
	CS 3000 (4) Computing for Adv. Manufacturing	
	MET 3000 (4) Advanced Manufacturing Analysis	
	MGT 3000 (3) Organizational Management	
Spring: 15 Credits	AES 4601 (3) Space Flight Op. II	
	Approved Major Electives (9)****	
	Social and Behavioral Sciences II (3)**	

Second Year		
Fall: 17 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.	
	Arts and Humanities (3)*	
Spring: 16 Credits	AES 3530 (3) Aerodynamics	
	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)***	
	Approved Major Electives (3)****	

Fourth Year		
Fall: 15 Credits	AES 4602 (3) Aerospace Comm. Operations	
	AES 4603 (3) Aerospace Op. Systems Anly. Design	
	AES 4610 (3) Aerodynamic Design	
	Approved Major Electives (6)****	
Spring: 12 Credits	AMS 4950 (3-6) Professional Internship	
	AES 4607 (3) Orbital Mech. & Aero. Sys. Simulations	
	Approved Major Electives (6)****	

\*PHI 1030-Ethics is recommended

\*\*ECO 2020 Microeconomics is recommended

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

\*\*\*\*Students need to complete 24-credits of AMS advisor approved electives. A minimum of 2 credits of electives must be upper-division. All students are required to complete 40-credits of upper-division to graduate.