



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

Advanced Manufacturing Sciences, B.S. - Aerospace Concentration  
 Minor (Not Required)  
 2018 - 2019 Catalog Year

First Year		
Fall: 13 Credits	Written Communication (3)	
	Oral Communication (3)	
	MTH 1110 (4) College Algebra for Calculus	
	PHI 1030 (3) Introduction to Ethics (Recommended)	
Spring: 15 Credits	Written Communication (3)	
	Historical (3) MC or GD recommended	
	AMS 1010 (3) Survey of Adv Manuf & Workplace Prep	
	IND 1450 or CET 1215 or MET 1200 (3)	
	CIS 1010 (3) Introduction to Computers*	

Third Year		
Fall: 16 Credits	CET 3120 (3) Engineering Economy	
	MET 3000 (4) Manufacturing Analysis	
	MGT 3000 (3) Organizational Management	
	AES 3530 (3) Aerodynamics	
	AES 3600 (3) Space Flight Operations I	
Spring: 16 Credits	CSS 3000 (4) Computing for Adv Manufacturing	
	AES 4601 (3) Space Flight Operations II	
	Advisor Approved Elective* (3)	
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Second Year		
Fall: 15 Credits	Art and Humanities (3) MC or GD recommended	
	CIS 2010 (3) Foundation of Information Systems	
	EET 1001 (3) Electronics: An Introduction	
	MET 1010 or IND 2830 (3)	
	MTH 1120 College Trigonometry (3)	
Spring: 17 Credits	PHY 2010 (4) College Physics I <b>AND</b>	
	PHY 2030 (1) College Physics Laboratory	
	ECO 2020 (3) Principles of Microeconomics (recommended)	
	COM 2610 (3) Introduction to Technical Writing	
	MET 1310 (3) Principles of Quality Assurance	
	AES 1050 (3) Introduction to Space	

Fourth Year		
Fall: 15 Credits	AES 4602 (3) Aerospace Commercialized Operations	
	AES 4603 (3) Aerospace Operations System Analysis and Design	
	Advisor Approved Elective* (3)	
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Spring: 12 Credits	AMS 4950 (3) Professional Internship	
	AES 4607 (3) Orbital Mechanics and Aerospace Sys Sim	
	AES 4610 (3) Aerodynamic Design	
	Advisor Approved Elective* (3)	

\*Students need to complete 24 credits of AMS advisor approved electives. A minimum of 2 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*