



METROPOLITAN STATE UNIVERSITYSM
OF DENVER
College of Professional Studies

Aviation and Aerospace Science, B.S. - Aerospace Operation Concentration
 Minor (not required)
 Fall 2018 catalog year

First Year		
Fall: 16 Credits	AES 1100 (6) Aviation Fundamentals (F, S)	
	AES 1710 (3) Instrument Flight Simulation I (F, S)	
	Written Communication (3)	
	MTH 1110 (4) College Algebra for Calculus (F, S, Su) OR MTH 1112 (4) College Algebra Thru Modeling (F, S, Su) OR MTH 1310 (4) Finite Math- Mgmt & Social Sciences (F, S, Su)	
Spring: 15 Credits	AES 1400 (3) Aviation Weather (F, S)	
	AES 1040 (3) Intro to Unmanned Aircraft Systems (F, S)	
	Written Communication (3)	
	Natural & Physical Science* (3) (F, S, Su)	
	CAS 1010 (3) Public Speaking (F, S, Su) OR CAS 1710 (3) Interpersonal Communication (F, S, Su)	

Third Year		
Fall: 15 Credits	AES 3000 (3) Aircraft Systems and Propulsion (F, S)	
	AES 3600 (3) Space Flight Operations I (F)	
	AES 3880 (3) Aviation Security (F, S)	
	COM 2610 (3) Intro to Technical Writing (F, S, Su) OR MKT 2040 (3) Business Communication	
	Minor or General Elective (3) (F, S, Su)	
Spring: 15 Credits	AES 3850 (3) Human Factors and Physiology of Flight (F, S)	
	AES 4601 (3) Space Flight Operations II (S)	
	Arts and Humanities (3) (F, S)	
	Minor or General Elective (3) (F, S, Su)	
	Minor or General Elective (3) (F, S, Su)	

Second Year		
Fall: 15 Credits	AES 2220 (3) Flight Dispatcher and Load Planning (F, S)	
	AST 1040 (3) Introduction to Astronomy (F, S, Su)	
	Natural & Physical Science (3) (F, S, Su)	
	PHI 1030 (3) Introduction to Ethics (F, S, Su)	
	Social Behavioral I (3) (F, S, Su) MC or GD recommended	
Spring: 16 Credits	AES 1050 (3) Introduction to Space (F, S)	
	AES 2200 (4) Fundamentals of Air Traffic Control (F, S)	
	Historical (3) (F, S, Su) MC or GD recommended	
	Social and Behavioral Science II (3) (F, S, Su)	
	Minor or General Elective (3) (F, S, Su)	

Fourth Year		
Fall: 15 Credits	AES 4200 (3) Airport Planning and Management I (F, S)	
	AES 4603 (3) Aerospace Op. System Analysis & Design (F)	
	AES 4860 (3) Aviation Safety (F, S) OR AES 4870 (3) Aviation Safety Program Management (F)	
	Minor or General Elective (3) (F, S, Su)	
	Minor or General Elective (3) (F, S, Su)	
Spring: 13 Credits	AES 4602 (3) Aerospace Commercialized Operations (F, S)	
	AES 4607 (3) Orbital Mech. & Aerospace Systems Sim. (F, S)	
	AES 4910 (3) Aviation & Aerospace Strategic Planning (Sr. Exp.) (F, S)	
	AES 4930 (3) Professional Flight Standards Sem. (F, S) OR AES 4210 (3) Airport Planning and Management II (F, S) OR COM 4790 (3) Senior Seminar in Tech. Comm. (F, S)	
	Minor or General Elective (1) (F, S, Su)	

*While any approved Natural & Physical Science course will be accepted, the department recommends PHY 1000: Intro to Physics