



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

Aviation & Aerospace Science B.S. - Professional Flight Officer Concentration  
 Minor (not required)  
 Fall 2019 catalog year

First Year	
Fall: 16 Credits	AES 1100 (6) Aviation Fundamentals
	AES 1710 (3) Instrument Flight Simulation I
	Written Communication (3)
	MTH 1110 (4) College Algebra for Calculus <b>OR</b> MTH 1112 (4) College Algebra thru Modeling <b>OR</b> MTH 1310 (4) Finite Math-Mgmt & Social Sciences
Spring: 15 Credits	AES 1400 (3) Aviation Weather
	AES 1040 (3) Intro to Unmanned Aircraft Systems <b>OR</b> AES 2050 (3) Aviation & Aerospace History and Development
	Written Communication (3)
	CAS 1010 (3) Public Speaking <b>OR</b> CAS 1710 (3) Interpersonal Communication
	PHI 1030 (3) Intro to Ethics
Second Year	
Fall: 14 Credits	AES 2120 (4) Instrument Fundamentals
	AES 2200 (4) Fundamentals of Air Traffic Control
	Social & Behavioral Sciences I (3)
	Natural & Physical Sciences (3)
Spring: 15 Credits	AES 2130 (3) Commercial Flight Operations
	AES 2710 (3) Instrument Flight Simulation II
	AES 2220 (3) Flight Dispatcher and Load Planning
	Arts & Humanities (3)
	Historical (3) MC or GD recommended

Third Year	
Fall: 16 Credits	AES 3000 (3) Aircraft Systems and Propulsion
	AES 3530 (3) Aerodynamics
	AES 3550 (4) FAA Instructor Certification-Ground School
	Natural & Physical Sciences (3)
	Social & Behavioral Sciences II (3)
Spring: 15 Credits	AES 4370 (3) Advanced Navigation Systems
	AES 3710 (3) Multi-Engine Flight Simulation I
	AES 4040 (3) Aircraft Performance
	AES 3880 (3) Aviation Security
	General Elective (3)
Fourth Year	
Fall: 16 Credits	AES 3650 (4) Advanced Flight Techniques
	AES 3850 (3) Human Factors & Physiology of Flight
	AES 4910 (3) Aviation & Aerospace Strategic Planning
	AES 4710 (4) Turboprop Flight Simulation
	General Elective (2)
Spring: 13 Credits	AES 4860 (3) Aviation Safety
	AES 4930 (3) Professional Flight Standards Seminar
	AES 4935 (4) Advanced Commercial Aircraft Systems
	General Elective (3)

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