



Aviation & Aerospace Science B.S. - Professional Flight Officer Concentration

Minor (not required)

Fall 2021 Catalog Year

First Year		
Fall: 16 Credits	AES 1100 (6) Aviation Fundamentals	
	AES 1400 (3) Aviation Weather	
	Written Communication (3)	
	MTH 1110 (4) College Algebra for Calculus OR MTH 1112 (4) College Algebra thru Modeling OR MTH 1310 (4) Finite Math - Mgmt & Social Sciences	
Spring: 15 Credits	AES 1710 (3) Instrument Flight Sim I (U.S. citizenship or TSA approval required: ask for details)	
	Written Communication (3)	
	Oral Communication (3)	
	Natural & Physical Science (3)	
	Arts & Humanities (3)	

Third Year		
Fall: 16 Credits	AES 3000 (3) Aircraft Systems and Propulsion	
	AES 3530 (3) Aerodynamics	
	AES 3650 (4) Advanced Flight Technologies	
	AES 3880 (3) Aviation Security	
	Social & Behavioral Science (3)	
Spring: 15 Credits	AES 1040 (3) Intro to Unmanned Aircraft Systems OR	
	AES 2050 (3) Aviation & Aerospace History and Dev	
	AES 3710 (3) Multi-Engine Flight Simulation I	
	AES 3850 (3) Human Factors & Physiology of Flight	
	AES 4040 (3) Aircraft Performance	
	AES 4370 (3) Advanced Navigation Systems	

Second Year		
Fall: 14 Credits	AES 2120 (4) Instrument Fundamentals	
	AES 2200 (4) Fundamentals of Air Traffic Control	
	Arts & Humanities (3)	
	Natural & Physical Science (3)	
Spring: 15 Credits	AES 2130 (3) Commercial Flight Operations	
	AES 2710 (3) Instrument Flight Simulation II	
	AES 2220 (3) Flight Dispatch and Load Planning	
	Historical (3) MC or GD recommended	
	Social & Behavioral Science (3)	

Fourth Year		
Fall: 14 Credits	AES 3550 (4) FAA Instrument Cert - Ground School	
	AES 4710 (4) Turboprop Flight Simulation OR	
	AES 4935 (4) Advanced Commercial Aircraft Systems	
	General Elective (3)	
Spring: 15 Credits	AES 4860 (3) Aviation Safety	
	AES 4930 (3) Professional Flight Standards Seminar	
	AES 4910 (3) Aviation & Aerospace Strategic Planning	
	General Elective (3)	
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In addition to coursework, students must have an FAA Commercial Pilot Certification with an Instrument Rating and either FAA Flight Instructor Certificate (CFI) or FAA Advanced Ground Instructor (AGI) & Instrument Instructor Certificates (IGI) before graduation