



Aviation & Aerospace Science B.S. - Aerospace Operations Concentration

Minor (not required)

Fall 2024 Catalog Year

First Year		
Fall: 14 Credits	AES 1010 (4) Intro to Aviation	
	AES 1400 (3) Aviation Weather	
	Written Communication (3)	
	Quantative Literacy (4) MTH 1110 recommended	
Spring: 15 Credits	AES 1040 (3) Intro to Unmanned Aircraft Systems <b>OR</b> AES 1050 (3) Intro to Space	
	AES 1710 (3) Instrument Flight Sim I	
	Written Communication (3)	
	Oral Communication (3)	
	Natural & Physical Science (3)	
Second Year		
Fall: 15 Credits	AES 2607 (3) Intro to Aerospace Systems Sim	
	AES 2050 (3) Aviation & Aerospace History and Development	
	Arts & Humanities (3)	
	Natural & Physical Science (3)	
	Social & Behavioral Science (3) ESSJ or GD Recommended	
Spring: 16 Credits	AES 2200 (4) Fundamentals of Air Traffic Control	
	Historical (3) ESSJ or GD Recommended	
	Arts & Humanities (3)	
	Social & Behavioral Science (3)	
	General Elective (3)	

Third Year		
Fall: 15 Credits	AES 2630 (3) Spacecraft Mission Operations I	
	AES 3600 (3) Space Flight Operations I	
	AES 2220 (3) Flight Dispatch and Load Planning	
	BUS 1950 (3) Business Communication <b>OR</b> JMP 2610 (3) Intro to Technical Writing	
	General Elective (3)	
Spring: 15 Credits	AES 3850 (3) Human Factors & Physiology of Flight	
	AES 4601 (3) Space Flight Operations II	
	AES 3880 (3) Aviation Security	
	General Elective (3)	
	General Elective (3)	
Fourth Year		
Fall: 15 Credits	AES 4200 (3) Airport Planning & Management I	
	AES 3620 (3) Aero Sys Proj & Mission Scheduling <b>OR</b> AES 3630 (3) Space Mission Operations II <b>OR</b> AES 4603 (3) Aero Ops Sys Analysis & Design	
	AES 4602 (3) Aerospace Commercialized Operations <b>OR</b> AER 4210 (3) Airport Planning & Management II	
	General Elective (3)	
	General Elective (3)	
Spring: 15 Credits	AES 4860 (3) Aviation Safety <b>OR</b> AES 4870 (3) Aviation Safety Program Management	
	AES 4930 (3) Pro Flight Standards Seminar <b>OR</b> JMP 4790 Senior Seminar	
	AES 4910 (3) Aviation & Aerospace Strategic Planning	
	General Elective (3)	
	General Elective (3)	