

Metropolitan State University of Denver
Aviation and Aerospace Science Major, B.S.: Professional Flight Officer Concentration
Minor (optional):
Fall 2013 Catalog

First Year	Suggested Course plan	Prerequisites	Alternative Course Plan
Fall: 16 credit hours	AES 1100 (6) Aviation Fundamentals (F, S)		
	AES 1710 (3) Instrument Flight Simulation I (F, S)		
	ENG 1010 (3) Composing Arguments (F, S, Su)	Appropriate placement test score	
	MTH 1110 (4) College Algebra OR MTH 1112 (4) College Algebra thru Modeling OR MTH 1310 (4) Finite Mathematics (F, S, Su)	Appropriate placement test score	
	TOTAL SEMESTER CREDIT HOURS:		
Spring: 15 credit hours	AES 1400 (3) Aviation Weather (F, S, Su)		
	ENG 1020 (3) Freshman Composition: Analysis, Research, & Documentation (F, S, Su)	ENG 1010	
	PHY 1250 (6) Physics of Aviation (F, S)	MTH 1110, 1310, or equivalent	
	SPE 1010 (3) Public Speaking OR SPE 1710 (3) Interpersonal Communication (F, S, Su)		
	TOTAL SEMESTER CREDIT HOURS:		

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Second Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 16 credit hours	AES 2120 (4) Instrument Fundamentals (F, S)	AES 1100 and 1400 or permission of instructor	
	Arts and Humanities (3) (F, S, Su) Multicultural or Global Diversity recommended		
	PHI 1030 (3) Introduction to Ethics (F, S, Su)		
	Historical (3) (F, S, Su) Multicultural or Global Diversity recommended		
	Social and Behavioral I (3) (F, S, Su) Multicultural or Global Diversity recommended		
Spring: 15 credit hours	AES 2130 (3) Commercial Flight Operations (S)		
	AES 2710 (3) Instrument Flight Simulation II (F, S)	AES 2110	
	AES 3000 (3) Aircraft Systems & Propulsion (F, S)	AES 1100 or FAA Priv. Pilot Cert.; PHY 1250 or permission of instructor	
	Social and Behavioral II (3) (F, S, Su) Multicultural or Global Diversity recommended		
	Minor or Unrestricted Elective(3)		
			TOTAL SEMESTER CREDIT HOURS:

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Third Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 16 credit hours	AES 3530 (3) Aerodynamics (F, S)	PHY 1250	
	AES 3650 (4) Advanced Flight Techniques (F, S)	AES 2120 & AES 2710 or an instrument rating	
	AES 3880 (3) Aviation Security (F, S)	At least Junior standing	
	Minor (3)		
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Spring: 15 credit hours	AES 3710 (3) Multi-Engine Flight Sim. I	FAA commercial/instrument certificate or permission of instructor	
	AES 3850 (3) Human Factors & Physiology of Flight (F, S, Su)	At least Junior standing	
	AES 4040 (3) Aircraft Performance (F, S)	AES 1100, AES 3530, & at least Junior standing	
	AES 4370 (3) Advanced Navigation Systems (F, S)	AES 1100 & at least Junior standing	
	Minor (3)		

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Fourth Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 13 credit hours	AES 3550 (3) FAA Instructor Certification-Ground	AES 3550 (3) FAA Instructor Certification- Ground	
	AES 4710 (4) Turboprop Flight Simulation (F, S)	AES 2710; Senior standing; FAA Private Pilot certificate with instrument rating; Commercial Pilot Certificate; and Multiengine rating or AES 3710	
	AES 4910 (3) Aviation Management & Job Targeting (F, S)	Aerospace Science major & senior standing or permission of instructor	
	Minor or Unrestricted Elective (3)		
Spring: 14 credit hours	AES 4860 (3) Aviation Safety (F, S)	Senior standing	
	AES 4930 (3) Professional Flight Standards Seminar (F, S)	Senior standing; AES 3000, AES 4040, & FAA Commercial Pilot Certificate with instrument rating	
	AES 4935 (4) Advanced Commercial Aircraft Systems (F)	Senior standing; AES 3000, 3530, 4040, and FAA Commercial Certificate with Instrument rating	
	Minor or Unrestricted Elective (2)		

***Professional Pilot Documentation required is required for graduation**

	Suggested Course plan	Prerequisite	Alternative Course Plan
Semester:			
			TOTAL SEMESTER CREDIT HOURS:

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Semester:			
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