

Metropolitan State University of Denver
Aviation Technology Major, B.S.: Professional Flight Officer Concentration
Minor (required):
Fall 2012 Catalog

First Year	Suggested Course plan	Prerequisites	Alternative Course Plan
Fall: 16 credit hours	AES 1100 (6) Aviation Fundamentals (F, S)		
	AES 1400 (3) Aviation Weather (F, S, Su)		
	AES 1710 (3) Single Engine Flight Sim. I (F, S)		
	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	
Spring: 15 credit hours	ENG 1010 (3) Freshman Composition: The Essay (F, S, Su)	Appropriate placement test score	
	PHI 1030 (3) Introduction to Ethics (F, S, Su)		
	PHY 1250 (6) Physics of Aviation (F, S)	MTH 1110, 1310, or equivalent	
	SPE 1010 (3) Public Speaking (F, S, Su)		

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Second Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 15 credit hours	AES 2110 (6) Commercial/Instrument Ground (F, S)	AES 1100 and 1400	
	ECO 2010 (3) Principles of Macroeconomics (F, S, Su)	ENG 1010 or 1020; any 1000-level MTH course	
	ENG 1020 (3) Freshman Composition: Analysis, Research, & Documentation (F, S, Su)	ENG 1010	
	Historical (3)-recommend HIS 1920, HIS 3090, or HIS 3590 (multicultural) (F, S, Su)		
Spring: 13-15 credit hours	AES Elective (F, S) (replaces AES 2150)		
	AES 2710 (3) Instrument Flight Simulation I (F, S)	AES 2110	
	ECO 2020 (3) Principles of Microeconomics (F, S, Su)	ENG 1010 or 1020; any 1000-level MTH course	
	Arts & Humanities (3) ARTH 1600 or ENG 2850 are recommended (Global Diversity) (F, S, Su)	ENG 1010 (ARTH 1600) ENG 1020 (ENG 2850)	
	Minor (3)		
			TOTAL SEMESTER CREDIT HOURS:

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Third Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 15 credit hours	AES 3000 (3) Aircraft Systems & Propulsion (F, S)	AES 1100 or FAA Priv. Pilot Cert.; PHY 1250 or permission of instructor	
	AES 3460 (3) Weather for Aircrews (F, S)	AES 1400; At least Junior Standing or permission of instructor	
	AES 3880 (3) Aviation Security (F, S)	At least Junior standing	
	Minor (3)		
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Spring: 15 credit hours	AES 3530 (3) Aerodynamics (F, S)	PHY 1250	
	AES 4040 (3) Aircraft Performance (F, S)	AES 1100, AES 3530, & at least Junior standing	
	AES 3710 (3) Multi-Engine Flight Sim. I OR	FAA commercial/instrument certificate or permission of instructor	
	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 3850 (3) Human Factors & Physiology of Flight (F, S, Su)	At least Junior standing	
	Minor (3)		

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Fourth Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 15 credit hours	AES 4370 (3) Advanced Navigation Systems (F, S)	AES 1100 & at least Junior standing	
	AES 4860 (3) Aviation Safety (F, S)	Senior standing	
	AES 4910 (3) Aviation Management & Job Targeting (F, S)	Aerospace Science major & senior standing or permission of instructor	
	Minor (3)		
Spring: 15 credit hours	AES 4930 (3) Professional Flight Standards Seminar (F, S)	Senior standing; AES 3000, AES 4040, & FAA Commercial Pilot Certificate with instrument rating	
	AES 4935 (6) Advanced Commercial Aircraft Systems (F)	Senior standing; AES 3000, 3530, 4040, and FAA Commercial Certificate with Instrument rating	
	AES elective (3)		
	Minor (3)		

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

	Suggested Course plan	Prerequisite	Alternative Course Plan
Semester:			

Semester:			

	Suggested Course plan	Prerequisite	Alternative Course Plan
Semester:			

Semester:			

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