

**Metropolitan State University of Denver**  
**Aviation and Aerospace Science Major, B.S.: Air Traffic Collegiate Training Initiative Concentration**  
**Minor (required):**  
**Fall 2013 Catalog**

<b>First Year</b>	<b>Suggested Course plan</b>	<b>Prerequisites</b>	<b>Alternative Course Plan</b>
<b>Fall: 16 credit hours</b>	AES 1100 (6) Aviation Fundamentals (F, S)		
	ENG 1010 (3) Composing Arguments (F, S, Su)	Appropriate placement test score	
	AES 1710 (3) Instrument Flight Simulation I (F, S)		
	MTH 1110 (4) College Algebra <b>OR</b> MTH 1112 (4) College Algebra thru Modeling <b>OR</b> MTH 1310 (4) Finite Mathematics (F, S, Su)	Appropriate placement test score	
<b>Spring: 15 credit hours</b>	AES 1400 (3) Aviation Weather (F, S, Su)		
	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 <b>OR</b> SPE 1710 Interpersonal Communication (F, S, Su)		

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<b>Second Year</b>	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
<b>Fall: 14 credit hours</b>	AES 2120 (4) Instrument Fundamentals (F)	AES 1100 & 1400 or permission of instructor	
	AES 2200 (4) Fundamentals of Air Traffic Control (F, S)	AES 1100 or permission of instructor	
	ENG 1020 (3) Freshman Composition: Analysis, Research, & Documentation (F, S, Su)	ENG 1010	
	Social and Behavioral I (3) (F, S, Su) <b>Multicultural or Global Diversity recommended</b>		
<b>Spring: 15 credit hours</b>	AES 2130 (3) Commercial Flight Operation (S)	AES 2120 or permission of instructor	
	AES 2710 (3) Instrument Flight Simulation II (F, S)	AES 2120 or permission of instructor	
	Social and Behavioral II (3) (F, S, Su) <b>Multicultural or Global Diversity recommended</b>		
	Minor (3)		
	Unrestricted Elective (3) (F, S, Su)		

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<b>Third Year</b>	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
<b>Fall: 15 credit hours</b>	AES 3880 (3) Aviation Security (F, S)	At least Junior standing	
	Historical (3) (F, S, Su) <b>Multicultural or Global Diversity recommended</b>		
	Unrestricted Elective (3) (F, S, Su)		
	Unrestricted Elective (3) (F, S, Su)		
	Minor (3)		
<b>Spring: 15 credit hours</b>	AES 4370 (3) Advanced Navigation (F, S)	AES 1100 & at least Junior standing	
	Arts and Humanities (3): <b>ENG 2850 recommended (Global Diversity) (F, S, Su)</b>		
	Unrestricted Elective (3) (F, S, Su)		
	Unrestricted Elective (3) (F, S, Su)		
	Minor (3)		

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<b>Fourth Year</b>	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
<b>Fall: 15 credit hours</b>	AES 4860 (3) Aviation Safety <b>OR</b> AES 4870 (3) Aviation Safety Program Management ( <b>F, S</b> )	Senior standing Completion of all required 3000-level AES courses and Senior Standing	
	AES 4910 (3) Aviation management and Job Targeting ( <b>F,S</b> )	Aerospace Science major and Senior Standing or permission of instructor	
	Unrestricted Elective (3) ( <b>F, S, Su</b> )		
	Unrestricted Elective (3) ( <b>F, S, Su</b> )		
	Minor (3)		
<b>Spring: 15 credit hours</b>	AES 4930 (3) Professional Flight Standards Seminar <b>OR</b>		
	AES 4210 Airport Planning & Management II <b>OR</b>		
	COM 4790 (3) Senior Seminar in Technical Communications ( <b>F, S</b> )		
	AES 4100 (3) Advanced Air Traffic Control ( <b>F, S</b> )	AES 1400, 2110, 2200, or permission of instructor	
	Unrestricted Elective (3) ( <b>F, S, Su</b> )		
	Minor (3)		
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	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
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<b>Semester:</b>			

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	<b>Suggested Course plan</b>	<b>Prerequisite</b>	<b>Alternative Course Plan</b>
<b>Semester:</b>			

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