

**Metropolitan State University of Denver**  
**Aviation and Aerospace Science Major, B.S.: Aerospace Operations Concentration**  
**Minor (required):**  
**Fall 2014 catalog year**

<b>First Year</b>	<b>Suggested Course Plan</b>	
<b>Fall: 16 credits</b>	AES 1100 (6) Aviation Fundamentals (F, S)	
	AES 1710 (3) Instrument Flight Sim. I (F, S)	
	ENG 1010 (3) Composing Arguments (F, S, Su)	
	MTH 1110 (4) College Algebra OR (F,S,Su) MTH 1112 (4) College Algebra Thru Modeling (F,S,Su) OR MTH 1310 (4) Finite Math- Mgmt & Soc Scncs (F,S,Su)	
<b>Spring: 15 credits</b>	AES 1400 (3) Aviation Weather (F,S)	
	ENG 1020 (3) Freshman Comp: Rsrch, Anly, Documt (F,S)	
	PHY 1250 (6) Physics of Aviation (F,S)	
	SPE 1010 (3) Public Speaking (F,S, Su) OR SPE 1710 (3) Interpersonal Communications (F,S, Su)	

<b>Third Year</b>	<b>Suggested Course Plan</b>	
<b>Fall: 15 credits</b>	AES 3600 (3) Space Flight Operations I (F)	
	AES Elective (3) (F,S)	
	AES 3850 (3) Human Factors and Physiology of Flight (F,S)	
	AES 3880 (3) Aviation Security (F,S)	
	Minor or Unrestricted Elective (3) (F, S, Su)	
<b>Spring: 15 credits</b>	AES 4370 (3) Advanced Navigation Systems (F,S)	
	AES 4601 (3) Space Flight Operations II (S)	
	AES elective (3) (F,S)	
	Arts and Humanities (3) (F,S)	
	Minor or Unrestricted Elective (F, S, Su)	

<b>Second Year</b>	<b>Suggested Course Plan</b>	
<b>Fall: 15 credits</b>	AES 2220 (3) Flight Dispatcher & Load Planning (F, S)	
	AST 1040 (3) Introduction to Astronomy (F, S, Su)	
	PHI 1030 (3) Introduction to Ethics (F, S, Su)	
	Historical (3) (F, S, Su) <b>Multicultural or Global Diversity recommended</b>	
	Social and Behavioral Science I (3) (F, S, Su) <b>Multicultural or Global Diversity recommended</b>	
<b>Spring: 15 credits</b>	AES 1050 (3) Introduction to Space (F, S)	
	AES 3000 (3) Aircraft Systems and Propulsion (F, S)	
	COM 2610 (3) Intro to Technical Writing OR MKT 2040 (3) Business Communication (F, S, Su)	
	Social and Behavioral Science II (3) (F, S, Su)	
	Minor or Unrestricted Elective (3) (F, S, Su)	

<b>Fourth Year</b>	<b>Suggested Course Plan</b>	
<b>Fall: 15 credits</b>	AES 4200 (3) Airport Planning & Management I (F,S)	
	AES 4603 (3) Aerospace Operations Systems Analysis & Design (F)	
	AES 4860 (3) Aviation Safety (F,S) OR AES 4870 (3) Aviation Safety Program Mgmt (F)	
	Minor or Unrestricted Elective (3) (F, S, Su)	
	Minor or Unrestricted Elective (3) (F, S, Su)	
<b>Spring: 14 credits</b>	AES 4602 (3) Aerospace Commercialized Operations (F,S)	
	AES 4607 (3) Orbital Mech. & Aerospace Sys Sim. (F,S)	
	AES 4910 (3) Aviation & Aerospace Strategic Planning (Sr. Exp.) (F,S)	
	AES 4930 (3) Professional Flight Standards Seminar (F,S) OR AES 4210 (3) Airport Planning & Mgmt II (F,S) OR COM 4790 (3) Senior Seminar in Tech Com. (F,S)	
	Minor or Unrestricted Elective (2) (F, S, Su)	