

Suggested Semester Plan of Study

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
FRESHMAN	ENGL 1113, Principles of English Composition (Core I)	3	ENGL 1213, Principles of English Composition (Core I), or	3
	MATH 1643, Precalculus for Business, Life, and Social Sciences	3	EXPO 1213, Expository Writing (Core I)	3
	AVIA 1111, Aviation Orientation	1	MATH 1743, Calculus I for Business, Life & Social Sciences	3
	AVIA 1113, Introduction to Aviation	3	COMM 1113, Principles of Communication, or	3
	HIST 1483, United States 1492-1865, or	3	2613, Public Speaking	
	1493, United States 1865-Present (Core IV)		AVIA 2513, The History of Aviation	3
	Free Elective	3	ECON 1113, Principles of Economics—Macro (Core III)	3
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	15
SOPHOMORE	METR 1014, Intro. To Weather and Climate (Core II)	4	AVIA 3513, Airport Operations Management	3
	ACCT 2113, Fundamentals of Financial Accounting	3	ACCT 2123, Fundamental Managerial Accounting	3
	ECON 2843, Elements of Statistics	3	ECON 1123, Principles of Economics—Micro	3
	P SC 1113, American Federal Government (Core III)	3	PHYS 1114, Gen. Physics for Non-Science Majors (Core II)	4
	Artistic Forms (Core IV)	3	Basic Aviation Elective: AVIA 1013, Intro. to Air Traffic Control; or,	3
			AVIA 1222, Primary Flying*; or, AVIA 2613, Aviation Safety	
			*Students electing AVIA 1222 must complete one additional credit hour of AVIA coursework prior to graduation.	
	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
JUNIOR	MIS 2113, Computer-Based Information Systems	3	METR 2603, Severe and Unusual Weather	3
	AVIA 3333, Survey of Aviation Law	3	MGT 3013, Principles of Organization and Management	3
	Western Civilization and Culture (Core IV)	3	MKT 3013, Principles of Marketing	3
	Free Elective	3	LS 3323, Legal Environment of Business	3
	Free Elective	3	AVIA 3013, Career Development for Aviation Professionals	3
			AVIA 3 3, Aerospace Control Admin.	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	18
SENIOR	FIN 3303, Business Finance	3	SCM 3523, Production/Operations Management	3
	AVIA 4983, Airline Management	3	AVIA 4713, Aviation Field Project (Capstone)	3
	MGT 3513, Human Resource Management Practice	3	AVIA 3000-4000-Level Elective	3
	Non-Western Culture—Upper-Division (Core IV)	3	Upper-Division Elective	3
	Free Elective	3	Free Elective	2
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	14
Bachelor's degrees require a minimum of 40 hours of upper-division (3000-4000) coursework. This plan of study should not be used in lieu of academic advisement.				
<ul style="list-style-type: none"> For those students who did not successfully complete two years of the same foreign language in high school, ten hours of free electives will be replaced with two semesters of the same college-level foreign language. For those students pursuing the General Business Minor, successful completion of ECON 2843 is required. 				

COURSES IN AVIATION (AVIA)

1013 Introduction to Air Traffic Control. The purpose of this course is to learn about the air traffic control system from both the pilot and controller's perspectives. This course is the first of six courses for the ATC minor and a prerequisite for basic air traffic control regulations. (F, Sp)

1111 Aviation Orientation. Prerequisite: major in Aviation. Required orientation course for all declared Aviation Majors during their first semester. Orients students to the department, curriculum, resources, and provides an overview of the various aviation professions. Guest lecturers will include departmental instructors covering all aspects of the industry, as well as the advising staff. (F)

1113 Introduction to Aviation. Prepares student to take the FAA private pilot written examination. Covers FAR's, meteorology, aerodynamics, flight physiology, performance charts, radio navigation techniques. (F, Sp, Su)

1222 Primary Flying. Prerequisite: 1113 or permission of department. Includes in-flight instruction with effort directed toward obtaining FAA certification as a private pilot. Third class medical must be obtained prior to flying. (F, Sp, Su)

2513 The History of Aviation. Chronicles the history of aviation through an in-depth study of powered flight and focus on the development of civil, commercial, and military aviation. The course will cover significant events and people throughout aviation history from the first powered flight through present day developments and a brief look into the future. Also examines the impact of aviation on recreation, transportation, warfare, and exploration. (F, Sp)

2613 Aviation Safety. Prerequisite: 1113 and 1222. This course will examine all aspects of accidents/incidents involving airline and general aviation flights. It examines those areas from the perspective of pilots, crew members, air traffic controllers and National Transportation Safety Board (NTSB) findings. Each accident/incident is dissected with the goal of determining what went wrong and lessons that can be learned. (F, Sp)

3013 Career Development for Aviation Professionals. Prerequisite: completed 36 or more college credit hours. This course will provide an overview of the career planning process for aviation students. Students will master the techniques of self-assessment, resume and letter writing, interviewing, researching companies, proper writing techniques, ethics and etiquette, and networking. This course is intended to help students prepare for internship interviews or entering the aviation industry as a professional. (F, Sp)

3103 Flight Deck Environmental Issues. Prerequisite: departmental permission. Human-machine interface issues in today's modern flight deck are the focus of the course. Leading to that end, the student will explore the cognitive and psychomotor domains of learning, review studies of aircrew interface problems, learn coping mechanisms used by today's best aviation trainers to overcome design-induced problems in cockpit advanced technology. (F, Sp)

3333 Survey of Aviation Law. Prerequisite: 1113 or junior standing. Survey of legal issues in aviation. The student will review legislation, regulatory agencies, and case studies dealing with legal

issues in the medium of airspace above the ground—predominantly over the United States. The student will be able to identify and comprehend the historical events and technical terms that describe national and international legal precedents that have shaped aviation law. (F, Sp)

3513 Airport Operations Management. Prerequisite: 1113 and junior standing. Provides the student with an in-depth analysis of airport management, operations and planning functions necessary to operate, develop, and maintain safe and efficient airport facilities as is the practice in the United States. Also introduces air traffic control (ATC) concepts. (F, Sp)

3913 Aerospace Contract Administration. Prerequisite: junior standing. Survey and study of specialized procedures used in the management and administration of aerospace (aviation) contracts, particularly associated with commercial and defense systems acquisitions. Students will use case study analysis, involving aerospace development and acquisition procedures, to enhance the learning experience and prepare them for future employment in the aerospace industry. (F)

3923 Aerospace Operational Research. Prerequisite: junior standing. Students will be introduced to the fundamental methods and techniques employed by the aviation/aerospace industry when researching and analyzing operational issues. Case studies will concentrate on procedures of data acquisition and analysis where research leading to problem solutions is commonplace. Students will be able to use specialized research methods to collect data, analyze it, and then draw logical conclusions. Knowledge, skills, and abilities learned in this course will prepare students for Senior Capstone (F).

4423 Crew Resource Management. Prerequisite: 1113 and junior standing. To teach the student the principles and procedures of a two or more person cockpit. Includes: briefings, call-outs, and emergency procedures. (F, Sp)

4663 Survey of Aerospace Ethical Issues. Prerequisite: junior standing and permission of the department. A survey of past and present ethical issues influencing the development of ethical behavior among U.S. aerospace companies and commercial and corporate aviation. Individual development of defense mechanisms to ensure ethical behavior in competitive environments. (F, Sp)

4713 Senior Capstone. Prerequisite: senior standing and permission of department; completion of all other major upper-division courses or concurrent enrollment. This project course builds on the accumulated knowledge from all courses to date. Lectures will cover problem identification, analysis, generation of alternatives, cost/benefit studies, interviews and presentations. Student teams will analyze and make recommendations on an actual problem for an aviation related organization, such as the FAA. (F, Sp) [V]

G4983 Airline Management. Prerequisite: junior or graduate standing. Study of the managerial aspects of the airline industry to include economic and organizational characteristics, marketing, operational scheduling, fleet planning, and labor relations. Students participate in management simulation as senior executives of a regional domestic carrier. (F, Sp)