

# REQUIREMENTS FOR THE BACHELOR OF SCIENCE

(Accredited by the Aviation Accreditation Board International)

## COLLEGE OF CONTINUING EDUCATION

### THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education  
**Summer 2009 through Spring 2010**

#### GENERAL REQUIREMENTS

Minimum Total Hours . . . . . **125**  
 Minimum OU & Overall Retention Grade Point Average . . . . . **2.25**  
 Minimum OU & Overall Retention Grade Point Average in Major . . . . . **2.25**  
 Minimum Grade Point Average in OU Work . . . . . **2.25**

Aviation —  
**Aviation Management—**  
**Non-Flying Track**  
**B090 P047**  
 Bachelor of Science

**OU encourages students to complete at least 32 hours of applicable coursework each year to have the opportunity to graduate in four years.**

LOWER-DIVISION REQUIREMENTS			UPPER-DIVISION REQUIREMENTS	
Subject	Hours	Courses	Business Requirements - 18 hours	Aviation Requirements - 21 hours
Communications	9-19	ENGL 1113, Principles of English Composition (Core I) ENGL 1213, Principles of English Composition (Core I), <b>or</b> EXPO 1213, Expository Writing (Core I) COMM 1113, Principles of Communication, <b>or</b> COMM 2613, Public Speaking <b>Foreign Language</b> , 0-10 hours, (Core I)—Students who have completed two years of high school foreign language are exempt from the general education foreign language requirement.	FIN 3303, Business Finance LS 3323, Legal Environment of Business MGT 3013, Principles of Organization and Management MGT 3513, Human Resource Management Practice MKT 3013, Principles of Marketing SCM 3523, Production/Operations Management	AVIA 3013, Career Development for Aviation Professionals AVIA 3103, Flight Deck Environmental Issues AVIA 3513, Airport Operations Mgt. AVIA 4423, Crew Resource Mgt. AVIA 4713, Aviation Field Project (Capstone) AVIA 4983, Airline Management AVIA 3000-4000-Level Elective
Social Science	3	P SC 1113, American Federal Government (Core III)		
Humanities	12	HIST 1483 or 1493, U.S. (Core IV) One course from one of the following 3 fields (Core IV) must be upper-division:  §Understanding Artistic Forms - _____  §Western Civilization and Culture - _____  §Non-Western Culture - _____		
Science & Mathematics	17	PHYS 1114, Gen. Physics for Non-Science Majors (Core II), <b>or</b> any approved Chemistry, Physics, or Zoology (Core II) METR 1014, Intro. To Weather and Climate (Core II) METR 2603, Severe and Unusual Weather MATH 1643, Precalculus for Business, Life, and Social Sciences MATH 1743, Calculus I for Business, Life & Social Sciences (Core I—Substitute: 1823, Calculus & Analytic Geom. I)	<b>Upper-Division Electives - 3 hours</b> Upper-division electives may include any 3000-4000-level course. May include specialized aviation courses.	
Basic Aviation	9	AVIA 1113, Introduction to Aviation AVIA 2513, The History of Aviation Three hours chosen from the following: AVIA 1013, Intro. to Air Traffic Control; <b>or</b> , AVIA 1222, Primary Flying*; <b>or</b> , AVIA 2613, Aviation Safety *Students electing AVIA 1222 must complete one additional credit hour of AVIA coursework prior to graduation.	<b>Free Electives - 5-15 hours</b> Fifteen hours if exempt from foreign language; five hours if foreign language must be taken. <b>Free electives may include any specialized aviation courses.</b> A combined maximum of five hours of physical education activity courses may be used to meet degree requirements.	
Basic Business	18	ACCT 2113, Fundamentals of Financial Accounting ACCT 2123, Fundamental Managerial Accounting ECON 1113, Principles of Economics—Macro (Core III) ECON 1123, Principles of Economics—Micro ECON 2843, Elements of Statistics, <b>or</b> PSY 2003, Understanding Statistics MIS 2113, Computer-Based Information Systems*		

§Courses taken to fulfill the University General Education Requirements must be chosen from the **University-Wide General Education Approved Course List**.

Aviation majors must earn a minimum grade of C in aviation courses to be considered passing and move to the next requirement.

#### ADDITIONAL REQUIREMENTS

Maintaining less than a 2.25 GPA will result in academic probation.  
 The maximum number of aviation hours accepted by transfer is twelve.  
 A maximum of nine hours of aviation may be accomplished through advanced standing.  
 A total of 40 hours of OU coursework must be completed to receive a baccalaureate degree.  
 A maximum of 32 hours of correspondence courses will be accepted.

A total of 55 hours of liberal arts coursework is required.  
 To receive the general business minor a 2.50 OU retention, overall retention, and upper-division business GPA is required.  
 \*This course fulfills the Computer Literacy Requirement for graduation as required by the Oklahoma State Regents for Higher Education.

#### University-Wide General Education Requirements (minimum 40 hours)

Courses designated as Core I, II, III, IV, or Capstone are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list, including at least one upper-division Gen. Ed. course outside of the student's major. Courses graded S/U or P/NP will not apply.

<b>Core I</b>	<b>Symbolic and Oral Communication (9–19 hours, 3–5 courses)</b> • English Composition—6 hours, 2 courses • Mathematics—3 hours, 1 course • Foreign Language—0–10 hours, 2 courses in the same language, (can be met by successful completion of 2 years of the same foreign language in high school) • Other (courses such as communication, logic or public speaking)
<b>Core II</b>	<b>Natural Science (7 hours, 2 courses)</b> • Courses must be taken from different disciplines in the biological and/or physical sciences; one of which must include a laboratory.
<b>Core III</b>	<b>Social Science (6 hours, 2 courses)</b> • One course must be P SC 1113, "American Federal Government"
<b>Core IV</b>	<b>Humanities (12 hours, 4 courses)</b> • Understanding Artistic Forms—3 hours, 1 course • Western Civilization and Culture—6 hours, 2 courses, including HIST 1483 or HIST 1493 • Non-Western Cultures—3 hours, 1 course

**Senior Capstone Experience (3 hours, 1 course)**

## 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), <b>or</b>	3
	MATH 1643, Precalculus for Business, Life, and Social Sciences	3	EXPO 1213, Expository Writing (Core I)	
	AVIA 1113, Introduction to Aviation	3	MATH 1743, Calculus I for Business, Life & Social Sciences	3
	HIST 1483, United States 1492-1865, <b>or</b>	3	COMM 1113, Principles of Communication, <b>or</b>	3
	1493, United States 1865-Present (Core IV)		2613, Public Speaking	
	Free Elective	3	AVIA 2513, The History of Aviation	3
			ECON 1113, Principles of Economics—Macro (Core III)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
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	<b>Basic Aviation Elective:</b> AVIA 1013, Intro. to Air Traffic Control; <b>or</b> ,	3
			AVIA 1222, Primary Flying*; <b>or</b> , AVIA 2613, Aviation Safety	
			*Students electing AVIA 1222 must complete one additional credit hour of AVIA coursework prior to graduation.	
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>
JUNIOR	MIS 2113, Computer-Based Information Systems	3	METR 2603, Severe and Unusual Weather	3
	AVIA 3103, Flight Deck Environmental Issues	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	L S 3323, Legal Environment of Business	3
	Free Elective	3	AVIA 3013, Career Development for Aviation Professionals	3
			AVIA 4423, Crew Resource Management	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>18</b>
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	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
<b>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.</b>				
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.				

## 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)

**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, Su)

**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)

**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)

**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)