For Students Entering the
Oklahoma State System
for Higher Education
Summer 2011 through
Spring 2012

**GENERAL REQUIREMENTS**

Minimum Total Hours: 125

Minimum OU & Overall Retention Grade Point Average: 2.25

**Business Requirements - 18 hours**

- SCB 1303, Business Finance
- L S 2323, Legal Environment of Business
- MKT 3013, Principles of Organization and Management
- MGT 3513, Human Resource Management Practice
- SCM 3523, Production/Operations Management

**Aviation Requirements - 20 hours**

- AVIA 3213, Airport Traffic Procedures
- AVIA 3313, IFR Air Traffic Procedures
- AVIA 3333, Survey of Aviation Law
- AVIA 4015, Air Traffic Simulation
- AVIA 4713, Aviation Field Project (Capstone)
- AVIA 3000-4000, Level Elective

* A lab simulation fee is required.

**Lower-Division Requirements**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Courses</th>
</tr>
</thead>
</table>
| **Communications** | 9-19 | ENGL 1113, Principles of English Composition (Core I)  
ENGL 1213, Principles of English Composition (Core II), or  
EXPO 1213, Expository Writing (Core I)  
COMM 1113, Principles of Communication, or  
COMM 2613, Public Speaking |
| **Science & Mathematics** | 17 | PHYS 1114, Gen. Physics for Non-Science Majors (Core II), or  
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 |
| **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 |
| **Basic Aviation** | 12 | AVIA 1013, Introduction to Air Traffic Control  
AVIA 1213, Basic Air Traffic Control Regulations  
AVIA 2013, General Air Traffic Control Procedures  
AVIA 2613, Aviation Safety |
| **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, or  
PSY 2003, Understanding Statistics  
MIS 2113, Computer-Based Information Systems* |

**Upper-Division Electives - 3 hours**

Upper-division electives may include any 3000-4000-level course. May include specialized aviation courses.

**Free Electives - 4-13 hours**

Thirteen hours if exempt from foreign language; four hours if foreign language must be taken. Free electives may include any specialized aviation courses. A combined maximum of five hours of physical education activity courses may be used to meet degree requirements.

**Additional Requirements**

Maintaining less than a 2.25 GPA, or failure to complete the required math sequence each semester will result in academic probation.

Upper-division business GPA 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.

**Core I**

- Symbolic and Oral Communication (9-19 hours, 3-5 courses)
  - 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)

**Core II**

- Natural Science (7 hours, 2 courses)
  - Courses must be taken from different disciplines in the biological and/or physical sciences; one of which must include a laboratory.

**Core III**

- Social Science (6 hours, 2 courses)
  - One course must be P SC 1113, “American Federal Government”

**Core IV**

- Humanities (12 hours, 4 courses)
  - 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)**

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**Revision 6-11**
### Suggested Semester Plan of Study

<table>
<thead>
<tr>
<th>Year</th>
<th>FIRST SEMESTER</th>
<th>Hours</th>
<th>SECOND SEMESTER</th>
<th>Hours</th>
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<tbody>
<tr>
<td>FRESHMAN</td>
<td>ENGL 1113, Principles of English Composition (Core I)</td>
<td>3</td>
<td>ENGL 1213, Principles of English Composition (Core I), or</td>
<td>3</td>
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<tr>
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<td>MATH 1643, Precalculus for Business, Life, and Social Sciences</td>
<td>3</td>
<td>EXPO 1213, Expository Writing (Core I)</td>
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<td>MIS 2113, Computer-Based Information Systems</td>
<td>3</td>
<td>MATH 1743, Calculus I for Business, Life &amp; Social Sciences</td>
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<tr>
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<td>HIST 1403, United States 1492-1665, or</td>
<td>3</td>
<td>COMM 1113, Principles of Communication, or</td>
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<td>1493, United States 1865-Present (Core IV)</td>
<td>3</td>
<td>VRO 2613, Public Speaking</td>
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<td>Free Elective</td>
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<td>METR 2603, Severe and Unusual Weather</td>
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<td></td>
<td>3</td>
<td>ECON 1113, Principles of Economics—Macro (Core III)</td>
<td>3</td>
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<td><strong>TOTAL CREDIT HOURS</strong></td>
<td><strong>15</strong></td>
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<tr>
<td>SOPHOMORE</td>
<td>METR 1014, Intro. To Weather and Climate (Core II)</td>
<td>4</td>
<td>ACCT 2123, Fundamental Managerial Accounting</td>
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<td>ECON 2843, Elements of Statistics, or</td>
<td>3</td>
<td>PHYS 1114, Gen. Physics for Non-Science Majors (Core II)</td>
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<td>PSY 2003, Understanding Statistics</td>
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<td>AVIA 1213, Basic Air Traffic Control Regulations</td>
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<td>PSC 1113, American Federal Government (Core III)</td>
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<td>AVIA 2613, Aviation Safety</td>
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<td>AVIA 1013, Introduction to Air Traffic Control *</td>
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<td><strong>TOTAL CREDIT HOURS</strong></td>
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<td><strong>16</strong></td>
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<tr>
<td>JUNIOR</td>
<td>AVIA 2013, General Air Traffic Control Procedures*</td>
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<td>AVIA 3213, Airport Traffic Procedures*</td>
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<td>MGT 3013, Principles of Organization and Management</td>
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<td>AVIA 3333, Survey of Aviation Law</td>
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<td>FIN 3303, Business Finance</td>
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<td>MGT 3013, Principles of Marketing</td>
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<td>Western Civilization and Culture (Core IV)</td>
<td>3</td>
<td>LS 3323, Legal Environment of Business</td>
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<td>Free Elective</td>
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<td>Non-Western Culture—Upper-Division (Core IV)</td>
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<td><strong>TOTAL CREDIT HOURS</strong></td>
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<tr>
<td>SENIOR</td>
<td>AVIA 3313, IFR Air Traffic Procedures*</td>
<td>3</td>
<td>AVIA 4015, Air Traffic Simulation*</td>
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<td>MGT 3513, Human Resource Management Practice</td>
<td>3</td>
<td>AVIA 4713, Aviation Field Project (Capstone)</td>
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<td>SCM 3523, Production/Operations Management</td>
<td>3</td>
<td>AVIA 3000-4000-Level Elective</td>
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<td></td>
<td>Artistic Forms (Core IV)</td>
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<td>Upper-Division Elective</td>
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<td>Free Elective</td>
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<tr>
<td></td>
<td><strong>TOTAL CREDIT HOURS</strong></td>
<td><strong>16</strong></td>
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<td><strong>17</strong></td>
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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.

*Air Traffic Control coursework must be taken in the semester offered. All 20 hours must be completed in residence at the University of Oklahoma.

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)

**1213 Basic Air Traffic Control Regulations.** Prerequisite: 1013. This course is a progressive continuation of introduction to air traffic control and a prerequisite for general air traffic control procedures. This course is more narrowly focused on study and interpretation of the FAA orders and regulations that govern the air traffic control system and the national airspace system. (Sp, Su)

**2013 General Air Traffic Control Procedures.** Prerequisite: 1213. This course will present the study of “general control” procedures used in the terminal and en route control options as well as FAA flight service processes and procedures. This course will serve as a prerequisite for airport traffic control procedures. (F)

**2613 Aviation Safety.** Prerequisite: 1113 and 2222. 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)

**3213 Airport Traffic Procedures.** Prerequisite: 2013. The primary focus of this course is to study visual air traffic control procedures, specifically, to learn the principles of operation and the separation methods required in the air traffic control tower environment. This course will serve as a prerequisite for IFR Air Traffic Control Procedures. (Sp)

**3313 IFR Air Traffic Procedures.** Prerequisite: 3213. Course focuses on the requirements and procedures used in the IFR air traffic control environment. The students will study all of the separation standards and rules used in radar and non-radar environments in the approach control and air route traffic control facilities. This course will serve as a prerequisite for Air Traffic Simulation. (F)

**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)

**4015 Air Traffic Simulation.** Prerequisite: 3313. Lab to prepare student for on-the-job training in an FAA air traffic control facility. Course will consist of dynamic simulation exercises in an ATC computer lab as well as classroom briefings. Students will run scenarios as the controller and as a pseudo pilot. (Sp)

**4713 Senior Capstone.** Prerequisite: senior standing, permission of department, and all 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)