# 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 2011 through Spring 2012**

### 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

### LOWER-DIVISION REQUIREMENTS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Courses</th>
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<tbody>
<tr>
<td>Communications</td>
<td>12-22</td>
<td>ENGL 1113, Principles of English Composition (Core I) or ENGL 1213, Principles of English Composition (Core I), or EXPO 1213, Expository Writing (Core I) or COMM 1113, Principles of Communication, or COMM 2613, Public Speaking or COMM 2213, Interpersonal Communication</td>
</tr>
<tr>
<td>Social Science</td>
<td>3</td>
<td>PSC 1113, American Federal Government (Core III)</td>
</tr>
<tr>
<td>Humanities</td>
<td>12</td>
<td>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</td>
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<tr>
<td>Science &amp; Mathematics</td>
<td>17</td>
<td>PHYS 1114, Gen. Physics for Non-Science Majors (Core II), or any approved Chemistry, Physics, or Zoology (Core II) or METR 1014, Intro. To Weather and Climate (Core II) or METR 2003, Severe and Unusual Weather or MATH 1643, Precalculus for Business, Life, and Social Sciences or MATH 1743, Calculus I for Business, Life &amp; Social Sciences (Core I—Substitute: 1823, Calculus &amp; Analytic Geom. I)</td>
</tr>
<tr>
<td>Basic Aviation</td>
<td>13</td>
<td>AVIA 1113, Introduction to Aviation or AVIA 1222, Primary Flying or AVIA 2331, Advanced Flying or AVIA 2341, Secondary Flying or AVIA 2513, The History of Aviation or AVIA 2613, Aviation Safety</td>
</tr>
<tr>
<td>Basic Business</td>
<td>15</td>
<td>ACCT 2113, Fundamentals of Financial Accounting or ECON 1113, Principles of Economics—Macro (Core III) or ECON 1123, Principles of Economics—Micro or ECON 2843, Elements of Statistics, or PSY 2003, Understanding Statistics or MIS 2113, Computer-Based Information Systems*</td>
</tr>
</tbody>
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### UPPER-DIVISION REQUIREMENTS

<table>
<thead>
<tr>
<th>Business Requirements - 9 hours</th>
<th>Aviation Requirements - 32 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 3013, Principles of Organization and Management</td>
<td>AVIA 3013, Career Development for Aviation Professionals</td>
</tr>
<tr>
<td>MGT 3363, Organizational Behavior</td>
<td>AVIA 3113, Commercial Aviation</td>
</tr>
<tr>
<td>AVIA 3333, Survey of Aviation Law</td>
<td>AVIA 3513, Airport Operations Mgt.</td>
</tr>
<tr>
<td>AVIA 3572, Instrument Flying</td>
<td>AVIA 3581, Multi-Engine Flying</td>
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<tr>
<td>AVIA 4313, Turbine Transition</td>
<td>AVIA 4423, Crew Resource Management</td>
</tr>
<tr>
<td>AVIA 4552, Commercial Flying</td>
<td>AVIA 4713, Aviation Field Project (Capstone)</td>
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<tr>
<td>AVIA 4983, Airline Management</td>
<td>AVIA 4990, Special Studies in Aviation</td>
</tr>
</tbody>
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### ADDITIONAL REQUIREMENTS

- **Free Electives - 2-12 hours**: 12 hours if exempt from foreign language; 2 hours if foreign language must be taken. Free electives may include specialized aviation courses. A combined maximum of five hours of physical education activity courses may be used to meet degree requirements.

### 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/NS 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 PSC 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)

- Aviation—Professional Pilot
  - Track
  - B090 P536
  - Bachelor of Science

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Revised 6-11
### COURSES IN AVIATION (AVIA)

**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)

**2231 Advanced Flying.** Prerequisite: 1222 or private pilot certificate. (F, Sp, Su)

**2341 Secondary Flying.** Prerequisite: 2231. Consists of cross-country experience under the direct supervision of an instructor pilot. Part of the FAA Part 141 commercial certification course. (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)

**3113 Commercial Aviation.** Prerequisite: 3133 or instrument rating. Course provides the student the knowledge required to obtain a commercial pilot certificate. (F, Sp, Su)

**3133 Fundamentals of Instrument Flight.** Prerequisite: 2231 and private pilot license. Federal aviation regulations as pertinent to instrument rules (IFR), weather and forecast products, interpretation of en route low altitude chart and terminal instrument approach procedures, instrument flight procedures and techniques. (F, Sp, Su)

**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)

**3572 Instrument Flying.** Prerequisite: 3133 and private pilot certificate. Individual flight simulator instruction in the technique of flying solely by reference to instruments. Ground instruction in radio navigation, meteorology, instrument approach procedures, air traffic control procedures and federal aviation regulations. (F, Sp, Su)

**4552 Commercial Flying.** Prerequisite: 4552 or commercial pilot certificate. A study of the design, construction and flight characteristics of multi-engine aircraft. In-flight instruction in piloting and operation of multiengine airplanes. Designed to qualify the student for certification as a multi-engine pilot. (F, Sp, Su)

**4313 Turbine Transition.** Prerequisite: 3581 and 4552. Introduce the student to the procedures of flying a turbine air craft and the concepts of crew resource management. Emphasis is placed on the basic terminology and procedures and emergency operations. (F, Sp, Su)

**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)

**4552 Multi-engine Flying.** Prerequisite: 3133. The final stage of the FAA Part 141 commercial pilot certificate course. Designed to polish pilot skills in commercial aircraft maneuvers. (F, Sp, Su)

**4713 Senior Capstone.** Prerequisite: senior standing and permission of department; completion of all other major upper-division courses or concurrent enrollment. 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)