# REQUIREMENTS FOR THE BACHELOR OF SCIENCE
(Accredited by the Aviation Accreditation Board International)

## COLLEGE OF CONTINUING EDUCATION
THE UNIVERSITY OF OKLAHOMA

### GENERAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Minimum Total Hours</th>
<th>125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum OU &amp; Overall Retention Grade Point Average</td>
<td>2.25</td>
</tr>
<tr>
<td>Minimum OU &amp; Overall Retention Grade Point Average in Major</td>
<td>2.25</td>
</tr>
</tbody>
</table>

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

<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 I), or  
EXPO 1213, Expository Writing (Core I)  
COMM 1113, Principles of Communication, or  
COMM 2613, Public Speaking  
Foreign Language, 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. |
| Social Science | 3 | PSC 1113, American Federal Government (Core III) |
| Humanities | 12 | HIST 1403 or 1493, U.S. (Core IV) |
| Science & Mathematics | 17 | PHYS 1144, 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 2003, 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) |
| Basic Aviation | 14 | AVIA 1111, Aviation Orientation  
AVIA 1113, Introduction to Aviation  
AVIA 1222, Primary Flying  
AVIA 2231, Advanced Flying  
AVIA 2341, Secondary Flying  
AVIA 2513, The History of Aviation  
AVIA 2613, Aviation Safety |
ACCT 2122, 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 |

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

### UPPER-DIVISION REQUIREMENTS

<table>
<thead>
<tr>
<th>Business Requirements - 12 hours</th>
<th>Aviation Requirements - 28 hours</th>
</tr>
</thead>
</table>
| FIN 3303, Business Finance  
LS 3323, Legal Environment of Business  
MGT 3013, Principles of Organization and Management  
MKT 3013, Principles of Marketing |
| AVIA 3013, Career Development for Aviation Professionals  
AVIA 3103, Flight Deck Enviros. Issues  
AVIA 3113, Commercial Aviation  
AVIA 3133, Fundamentals of Instrument Flight  
AVIA 3572, Instrument Flying  
AVIA 4423, Crew Resource Management  
AVIA 4552, Commercial Flying  
AVIA 4663, Survey of Aero. Ethical Issues  
AVIA 4713, Aviation Field Project (Capstone)  
AVIA 4983, Airline Management |

### ADDITIONAL REQUIREMENTS

Students are not required to complete all electives listed below, but may choose to do so for additional training.

- AVIA 1313, Introduction to Unmanned Aerial Systems
- AVIA 3111, Advanced Flight Maneuvers
- AVIA 3333, Survey of Aviation Law
- AVIA 3513, Airport Operations Management
- AVIA 3581, Multi-Engine Flying
- AVIA 4113, CFI Seminar
- AVIA 4313, Turbine Transition
- AVIA 4602, Flight Instructor—Airplane
- AVIA 4613, Instrument Flight Instructor—Airplane
- AVIA 4622, Multi-Engine Flight Instructor
- AVIA 4803, Aviation Mental Health
- AVIA 4990, Special Studies in Aviation

### 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 may 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)

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.

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

The maximum number of aviation hours accepted by transfer is twelve.

A minimum 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.

Revised 7-13
### 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>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN</td>
<td></td>
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</tr>
<tr>
<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>
<td></td>
</tr>
<tr>
<td>MATH 1643, Precalculus for Business, Life, and Social Sciences</td>
<td>3</td>
<td>EXPO 1213, Expository Writing (Core I)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AVIA 1111, Aviation Orientation</td>
<td>1</td>
<td>MATH 1745, Calculus I for Business, Life &amp; Social Sciences</td>
<td>3</td>
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<tr>
<td>AVIA 2113, Fundamentals of Instrument Flight</td>
<td>3</td>
<td>COMM 1113, Introduction to Communication, or</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HIST 1483, United States 1492-1865, or</td>
<td>1</td>
<td>EXPO 2123, Public Speaking</td>
<td>3</td>
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<tr>
<td>AVIA 1493, United States 1865-Present (Core IV)</td>
<td>1</td>
<td>AVIA 2251, Advanced Flying</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Free Elective</td>
<td>1</td>
<td>AVIA 2513, The History of Aviation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL CREDIT HOURS</td>
<td>16</td>
<td>ECON 1113, Principles of Economics—Macro (Core III)</td>
<td>3</td>
<td></td>
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<tr>
<td>SOPHOMORE</td>
<td></td>
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<tr>
<td>METR 1014, Intro. To Weather and Climate (Core II)</td>
<td>4</td>
<td>ACCT 2123, Fundamental Managerial Accounting</td>
<td>3</td>
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<tr>
<td>AVIA 2341, Secondary Flying</td>
<td>1</td>
<td>ECON 1123, Principles of Economics—Micro</td>
<td>3</td>
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<tr>
<td>AVIA 3133, Fundamentals of Instrument Flight</td>
<td>3</td>
<td>PHYS 1114, Gen. Phys for Non-Science Majors (Core II)</td>
<td>4</td>
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<tr>
<td>ECON 2843, Elements of Statistics</td>
<td>3</td>
<td>AVIA 3113, Commercial Aviation</td>
<td>3</td>
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<tr>
<td>Free Elective</td>
<td>3</td>
<td>AVIA 3572, Instrument Flying</td>
<td>2</td>
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<tr>
<td>TOTAL CREDIT HOURS</td>
<td>16</td>
<td>Artistic Forms (Core IV)</td>
<td>3</td>
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<tr>
<td>JUNIOR</td>
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<tr>
<td>METR 2603, Severe and Unusual Weather</td>
<td>3</td>
<td>MGT 3013, Principles of Organization and Management</td>
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<tr>
<td>MIS 2113, Computer-Based Information Systems</td>
<td>3</td>
<td>MKT 3013, Principles of Marketing</td>
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<tr>
<td>AVIA 2613, Aviation Safety</td>
<td>3</td>
<td>AVIA 3013, Career Development for Aviation Professionals</td>
<td>3</td>
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<tr>
<td>AVIA 4552, Commercial Flying</td>
<td>2</td>
<td>AVIA 3103, Flight Deck Enviro. Issues</td>
<td>3</td>
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<tr>
<td>P SC 1113, American Federal Government (Core III)</td>
<td>3</td>
<td>Free Elective</td>
<td>3</td>
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<tr>
<td>TOTAL CREDIT HOURS</td>
<td>17</td>
<td></td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>SENIOR</td>
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</tr>
<tr>
<td>FIN 3303, Business Finance</td>
<td>3</td>
<td>L S 3323, Legal Environment of Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AVIA 4663, Survey of Aero. Ethical Issues</td>
<td>3</td>
<td>AVIA 4713, Aviation Field Project (Capstone)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AVIA 4983, Airline Management</td>
<td>3</td>
<td>AVIA 4423, Crew Resource Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Western Civilization and Culture (Core IV)</td>
<td>3</td>
<td>Non-Western Civilization—Upper-Division (Core IV)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Free Elective</td>
<td>3</td>
<td>Upper-Division Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>TOTAL CREDIT HOURS</td>
<td>14</td>
<td></td>
<td>15</td>
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</tbody>
</table>

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.

- 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)

#### 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 psychology, 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)

#### 1313 Introduction to Unmanned Aerial Systems
Prerequisite: permission of the department. Introduces students to Unmanned Aerial Systems (UAS). Includes the history of UAS and survey current UAS platforms, terminology, challenges to airspace integration and operational theory. (F, Sp)

#### 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
Challenges 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 interview 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)

#### 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 pertain 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 it is the practice in the United States. Also introduces air traffic control (ATC) concepts. (F, Sp, Su)

#### 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)

#### 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 Commercial Flying
Prerequisite: 3113. The final stage of the FAA Part 141 commercial pilot certification course. Designed to polish pilot skills in commercial aircraft maneuvers. (F, Sp, Su)

#### 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 environment. (F)

#### 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) [Y]

#### 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)