

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE**  
**COLLEGE OF ATMOSPHERIC AND GEOGRAPHIC SCIENCES**  
**THE UNIVERSITY OF OKLAHOMA**

<b>Academic Year</b>	<b>General Requirements</b>	<b>Program</b>
For Students Entering the Oklahoma State System for Higher Education <b>Summer 2024 through Spring 2025</b>	Minimum Total Credit Hours ..... 120 Minimum Upper-Division Hours ..... 40 <b>Minimum Retention/Graduation Grade Point Averages:</b> Overall - Combined and OU ..... 2.25 Major - Combined and OU ..... 2.25	<b>Aviation: Air Traffic Management Track</b>  <b>B090 P045</b>  Bachelor of Science

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

**Minimum Total Credit Hours: 120**  
**Minimum Upper-Division Hours: 40**

**Overall GPA - Combined and OU: 2.25**  
**Major GPA - Combined and OU: 2.25**

**Program Code: B090 P045**

### General Education and College Requirements

Courses taken to fulfill the University General Education Requirements must be chosen from the approved General Education course list published in the Class Schedule or at <http://www.ou.edu/gened/courses>.

#### UNIVERSITY-WIDE GENERAL EDUCATION (MINIMUM 40 HOURS) AND COLLEGE REQUIREMENTS

Code	Title	Credit Hours
<b>Core Area I: Symbolic and Oral Communication</b>		
ENGL 1113	Principles of English Composition (Core I)	3
ENGL 1213	Principles of English Composition (Core I)	3
	or EXPO 1213 Expository Writing	
COMM 1113	Principles of Communication	3
	or COMM 2613 Public Speaking	
Language (Core I) <sup>1</sup>		0-10
<i>Mathematics</i>		
MATH 1643	Functions and Modeling for Business, Life and Social Sciences	3
MATH 1743	Calculus I for Business, Life and Social Sciences	3
	<sup>2</sup>	
<b>Core Area II: Natural Science</b>		
Choose one of the following:		4
GEOG 1114	Physical Geography (Core II)	
Any approved Chemistry, Physics, or Biology course (Core II)		
METR 1014	Introduction to Weather and Climate (Core II)	4
METR 2603	Severe and Unusual Weather	3
<b>Core Area III: Social Science <sup>3</sup></b>		
P SC 1113	American Federal Government (Core III)	3
<b>Core Area IV: Arts &amp; Humanities</b>		
HIST 1483	United States to 1865 (Core IV)	3
	or HIST 1493 United States, 1865 to the Present	
One course from one of the following 3 fields (Core IV) must be upper-division:		
Choose one Artistic Forms course		3
Choose one Western Culture course		3

Choose one World Culture course	3
<b>Core Area V: First Year Experience</b>	
Choose one course	3
<b>Total Credit Hours</b>	<b>44-54</b>

- <sup>1</sup> Students who have completed two years of high school language are exempt from the general education language requirement.
- <sup>2</sup> Core I—Substitute: MATH 1823, Calculus & Analytic Geom. I or MATH 1914, Differential and Integral Calculus I
- <sup>3</sup> Two courses, 6 hours, of Core III Social Science are required and one course must be P SC 1113. ECON 1113 or ECON 1123 will meet the other 3 hours of this requirement under Major Support.

### Free Electives

Five hours if exempt from language; zero hours if two semesters of language must be taken. **Free electives may include any specialized aviation courses.**

## Major Requirements

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

Code	Title	Credit Hours
<b>Lower-Division Requirements (13 Hours)</b>		
AVIA 1013	Introduction to Air Traffic Control	3
AVIA 1111	Aviation Orientation	1
AVIA 1213	Basic Air Traffic Control Regulations	3
AVIA 2013	General Air Traffic Control Procedures	3
AVIA 2613	Aviation Safety	3
<b>Upper-Division Requirements (28 Hours)</b>		
AVIA 3013	Career Development for Aviation Professionals	3
AVIA 3213	Airport Traffic Procedures	3
AVIA 3313	IFR Air Traffic Procedures <sup>1</sup>	3
AVIA 4004	Air Traffic Control Tower Simulation <sup>1</sup>	4
AVIA 4013	En-Route Radar Lab <sup>1</sup>	3
AVIA 4023	Tracon Radar Lab <sup>1</sup>	3
AVIA 4423	Crew Resource Management	3
AVIA 4663	Survey of Aerospace Ethical Issues	3
AVIA 4713	Senior Capstone	3
<b>Total Credit Hours</b>		<b>41</b>

<sup>1</sup> A lab simulation fee is required.

## Major Support Requirements

Code	Title	Credit Hours
GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3
ACCT 2113	Fundamental Financial Accounting	3
ECON 1113	Principles of Economics-Macro (Core III-SS)	3
ECON 1123	Principles of Economics-Micro (Core III-SS)	3
ECON 2843	Elements of Statistics	3
or PSY 2003	Understanding Statistics	
or COMM 2513	Introduction to Statistics	
or SOC 3123	Social Statistics	
or MATH 4753	Applied Statistical Methods	
FIN 2303	Business Finance	3
MIS 2113	Computer-Based Information Systems	3
L S 3323	Legal Environment of Business	3
MGT 3013	Principles of Organization and Management	3
MKT 3013	Principles of Marketing and Supply Chain Management	3
<b>Total Credit Hours</b>		<b>30</b>

## SPECIALIZED AVIATION ELECTIVES

Students are not required to complete specialized aviation electives, but may choose to do so for additional training: AVIA 3333 and AVIA 4803.

## Additional Requirements

- 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 maximum of nine hours of aviation may be accomplished through advanced standing.
- 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.

More information in the catalog: (<http://ou-public.courseleaf.com/atmospheric-geographic-sciences/aviation/aviation-air-traffic-management-track-bachelor-science/>).

## Information Concerning General Rules, Regulations and Minimum Requirements for Undergraduate Degrees

**Total Hours:** A minimum of 120 semester hours acceptable toward graduation must be completed.

**Upper-Division Hours:** A minimum of 40 upper- division semester hours acceptable toward graduation must be completed. OU courses numbered 3000 or above are upper- division. Transfer work is counted as lower-division or upper-division credit depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.

**Senior Institution Hours:** A minimum of 60 semester hours applied toward graduation must be earned at senior (4-year) institutions.

### Residency:

- A minimum of two semesters must be spent in residence in the College of Atmospheric and Geographic Sciences.
- At least 36 of the last 48 hours must be completed in residence at OU.

**Individual Studies:** No more than six hours of independent study or directed readings may be applied toward degree requirements.

**Grade Point Averages:** Students must earn a minimum overall 2.25 for each of the following: Combined Retention GPA (all college grades), OU Retention GPA, GPA for all major courses, and GPA for all major courses taken at OU.

## Suggested Semester Plan of Study

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
FRESHMAN	ENGL 1113	Principles of English Composition ( Core I )	3	ENGL 1213 or EXPO 1213	Principles of English Composition ( Core I ) or Expository Writing	3
	MATH 1643	Functions and Modeling for Business, Life and Social Sciences	3	MATH 1743	Calculus I for Business, Life and Social Sciences	3
	ECON 1113	Principles of Economics-Macro ( Core III )	3	COMM 1113 or COMM 2613	Principles of Communication or Public Speaking	3
	AVIA 1013	Introduction to Air Traffic Control <sup>1</sup>	3	ECON 1123	Principles of Economics-Micro ( Core III )	3
	AVIA 1111	Aviation Orientation	1	AVIA 1213	Basic Air Traffic Control Regulations <sup>1</sup>	3
		First-Year Experience (Core V)	3			
	<b>CREDIT HOURS</b>		<b>16</b>	<b>CREDIT HOURS</b>		<b>15</b>
SOPHOMORE	METR 1014	Introduction to Weather and Climate ( Core II )	4	GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3
	ACCT 2113	Fundamental Financial Accounting	3	FIN 2303	Business Finance	3
	ECON 2843 or PSY 2003	Elements of Statistics or Understanding Statistics	3	MIS 2113	Computer-Based Information Systems	3
	P SC 1113	American Federal Government ( Core III )	3	GEOG 1114	Physical Geography ( Core II )	4
	AVIA 2013	General Air Traffic Control Procedures <sup>1</sup>	3		Or any approved Chemistry, Physics, or Biology course (Core II)	
				AVIA 3213	Airport Traffic Procedures <sup>1</sup>	3
	<b>CREDIT HOURS</b>		<b>16</b>	<b>CREDIT HOURS</b>		<b>16</b>
JUNIOR	AVIA 2613	Aviation Safety	3	AVIA 3013	Career Development for Aviation Professionals	3
	AVIA 3313	IFR Air Traffic Procedures <sup>1</sup>	3	AVIA 4013	En-Route Radar Lab	3
	MGT 3013	Principles of Organization and Management	3	AVIA 4423	Crew Resource Management	3
	L S 3323	Legal Environment of Business	3	MKT 3013	Principles of Marketing and Supply Chain Management	3
	HIST 1483 or HIST 1493	United States to 1865 ( Core IV ) or United States, 1865 to the Present	3		World Culture - Upper-Division (Core IV-WDC)	3
		<b>CREDIT HOURS</b>		<b>15</b>	<b>CREDIT HOURS</b>	
SENIOR	AVIA 4004	Air Traffic Control Tower Simulation <sup>1</sup>	4	AVIA 4023	Tracon Radar Lab	3
	AVIA 4663	Survey of Aerospace Ethical Issues	3	AVIA 4713	Senior Capstone	3
		Artistic Forms (Core IV-AF)	3		Western Culture (Core IV-WC)	3
		Free Elective	3	METR 2603	Severe and Unusual Weather	3
		Free Elective	2			
		<b>CREDIT HOURS</b>		<b>15</b>	<b>CREDIT HOURS</b>	

<sup>1</sup> Air Traffic Control coursework must be taken in the semester offered. All 25 hours must be completed in residence at the University of Oklahoma.

- For those students who did not successfully complete two years of the same language in high school, 5 hours of free electives will be replaced with two semesters of the same college-level language.
- For those students pursuing the General Business Minor, successful completion of ECON 2843 is required.
- This plan of study should not be used in lieu of academic advisement.