

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

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2024 through Spring 2025

General Requirements	
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

Program
Aviation: Air Traffic Management Track
B090 P045
Bachelor of Science

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

**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 <sup>2</sup>	3
<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>

- Students who have completed two years of high school language are exempt from the general education language requirement.
- Core I—Substitute: MATH 1823, Calculus & Analytic Geom. I or MATH 1914, Differential and Integral Calculus I
- 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
<b>FRESHMAN</b>	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>
<b>SOPHOMORE</b>	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>
<b>JUNIOR</b>	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>	
<b>SENIOR</b>	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.