

## REQUIREMENTS FOR THE BACHELOR OF SCIENCE/MASTER OF BUSINESS ADMINISTRATION 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 ..... 156-159 Minimum Upper-Division Hours ..... 52 <b>Minimum Retention/Graduation Grade Point Averages:</b> Overall - Combined and OU ..... 3.00 Major - Combined and OU ..... 3.00	<b>Meteorology</b>  <b>A685/F140-Q449</b>  Bachelor of Science/Master of Business Administration

OU encourages students to complete at least 32 hours of applicable coursework each year to have the opportunity to graduate in 5 years.

**Minimum Total Credit Hours:** 156-159

**Minimum Upper-Division Hours:** 52

**Overall GPA - Combined and OU:** 3.00

**Major GPA - Combined and OU:** 3.00

**Program Code:** A685/F140-Q449

### General Education and College Requirements

Courses for fulfillment of General Education and college requirements must be from the approved General Education course list at <http://www.ou.edu/content/geden/courses.html>. **Courses graded P/NP will not apply**

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

At least three hours of Upper-Division General Education coursework must be completed **outside the major**.

Code	Title	Credit Hours
<b>Core Area I: Symbolic and Oral Communication</b>		
<i>English Composition (6 hours)</i>		
ENGL 1113	Principles of English Composition	3
ENGL 1213	Principles of English Composition	3
or EXPO 1213	Expository Writing	
<i>Language (0-10 hours)</i>		
(0-10 hours in the same language) Students who have not completed two years of the same language in high school are required to take two college courses in the same language		
Beginning Course		0-5
Beginning Course, continued		0-5
<i>Mathematics (minimum 3 hours)</i>		
MATH 1914	Differential and Integral Calculus I <sup>1</sup>	4
<b>Core Area II: Natural Science (minimum 7 hours, 2 courses)</b>		
CHEM 1315	General Chemistry (Science with Lab) <sup>1</sup>	5
PHYS 2514	General Physics for Engineering and Science Majors (Science without Lab) <sup>1</sup>	4
<b>Core Area III: Social Science (6 hours)</b>		
P SC 1113	American Federal Government	3
Choose one course from the General Education Social Science list		3
<b>Core Area IV: Arts and Humanities</b>		
<i>Artistic Forms (3 hours)</i>		
Choose one course from the General Education Artistic Forms list.		3
<i>Western Culture (6 hours)</i>		
HIST 1483	United States to 1865	3

or HIST 1493	United States, 1865 to the Present	
Choose one course from the General Education Western Culture list (Excluding HIST 1483 and HIST 1493)		3
<i>World Culture (3 hours)</i>		
Choose one course from the General Education World Culture list		3
<b>Core Area V: First Year Experience (3 hours)</b>		
Choose one course		3
<b>Total Credit Hours</b>		<b>40-50</b>

<sup>1</sup> College of Atmospheric and Geographic Sciences requirements.

#### ADDITIONAL COLLEGE REQUIREMENTS FOR B.S.

Code	Title	Credit Hours
MATH 2924	Differential and Integral Calculus II <sup>1</sup>	4
PHYS 2524	General Physics for Engineering and Science Majors	4
<b>Total Credit Hours</b>		<b>8</b>

<sup>1</sup> MATH 1823, MATH 2423, and MATH 2433 will also fulfill the college's calculus requirement.

### Free Electives

Electives to bring total applicable hours to the minimum total required for the degree including 52 at the upper-division level, and at least 30 at the Graduate level (5000-6000-level).  
Shared hours with the M.B.A. will replace 12 elective hours in the undergraduate degree.

## Undergraduate Major Requirements

Code	Title	Credit Hours
<b>Core (48 hours, 15 courses)</b>		
METR 1003	Introduction to the Atmospheric Sciences	3
METR 2004	Atmospheric Circulations	4
METR 2213	Physical Meteorology I:Thermodynamics	3
METR 2613	Atmospheric In-Situ & Surface-Based Measurements	3
METR 3113	Atmospheric Dynamics I: Intro to Atmospheric Kinematics/Dynamics	3
METR 3123	Atmospheric Dynamics II: Theory of Atmospheric Flows	3
METR 3223	Physical Meteorology II: Cloud Physics, Atmos Electricity/Optics	3
METR 3334	Principles of Research & Communication in Meteorology	4
METR 3513	Atmospheric Chemistry in Weather and Climate	3
METR 4133	Atmospheric Dynamics III: Mid-Latitude Synoptic-Scale Dynamics	3
METR 4233	Physical Meteorology III: Radiation and Remote Sensing	3
METR 4424	Synoptic Meteorology Laboratory	4
METR 4433	Mesoscale Meteorology	3
METR 4523	Climate and the General Circulation	3
METR 4913	Senior Seminar (Capstone)	3
<b>Major Elective (3 hours)</b>		
Choose one Meteorology, Hydrology or Climatology upper-division elective		3
<b>Total Credit Hours</b>		<b>51</b>

## Undergraduate Major Support Requirements

- Courses required for major support may *not* also fulfill University-Wide General Education Requirements.

Code	Title	Credit Hours
<b>Math and Physics</b>		
MATH 2934	Differential and Integral Calculus III	3-4
or MATH 2443	Calculus and Analytic Geometry IV	
PHYS 1311	General Physics Lab I	1
MATH 3413	Physical Mathematics I	3
METR 3323		3
or MATH 4753	Applied Statistical Methods	
<b>Programming Elective</b>		
Choose one course from the following:		1-4
METR 1313	Introduction to Programming for Meteorology	
C S 1321	Java for Programmers	
C S 1323	Introduction to Computer Programming for Programmers	
C S 1324	Introduction to Computer Programming for Non-Programmers	
<b>Total Credit Hours</b>		<b>11-15</b>

## Graduate Requirements

Code	Title	Credit Hours
<b>Core Requirements (18 hours)</b>		
ACCT 5202	Financial Accounting	2
B AD 5010	Foundations of MBA Success	0
B AD 5101	MBA - Professional Development	1
B AD 5102	Managerial Economics	2
B AD 5201	MBA - Professional Development II	1
FIN 5102	Financial Management	2
L S 5802	Business Ethics/Legal	2
MGT 5702	Organizational Behavior	2
MIT 5602	Management Information Systems	2
MKT 5402	Marketing Management	2
B AD 5902	Strategic Management (serves in lieu of comprehensive examination. Not waivable.)	2
<b>Experiential Course Requirements (6 hours)</b>		
B AD 5812	Global Business Experience	2
B AD 5822	Business Consulting Practicum	2
B AD 5832	Applied Field Project	2
<b>MBA Elective Requirements (20 hours)</b>		
Choose 8 hours of graduate-level electives with approval of Graduate Liaison.		8
Choose 12 hours of graduate-level METR electives, approved by Graduate Liaison to apply towards MBA requirements. (Hours shared with undergraduate degree)		12
<b>Additional Required Coursework (4 hours)</b>		
Choose two of the following courses:		4
ACCT 5212	Managerial Accounting	
B AD 5182	Quantitative Analysis II	
FIN 5112	Investments	
ENT 5102	Entrepreneurship & Innovation	
<b>Total Credit Hours</b>		<b>48</b>

More information in the catalog: (<http://ou-public.courseleaf.com/atmospheric-geographic-sciences/meteorology/meteorology-bachelor-science-master-business-administration/>).

## 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

This plan shows one possible grouping of courses that would allow students to graduate in four years. Please refer to the front of the degree checksheet for official requirements. Students must consult with College of Atmospheric and Geographic Sciences and/or School of Meteorology academic advisers to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Atmospheric & Geographic Sciences, and Meteorology major requirements.

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours	
FRESHMAN	METR 1003	Introduction to the Atmospheric Sciences <sup>1</sup>	3	MATH 2924	Differential and Integral Calculus II ( Core I ) <sup>1</sup>	4	
	ENGL 1113	Principles of English Composition ( Core I )	3	PHYS 1311	General Physics Lab I <sup>1</sup>	1	
	MATH 1914	Differential and Integral Calculus I ( Core I ) <sup>1</sup>	4	PHYS 2514	General Physics for Engineering and Science Majors ( Core II ) <sup>1</sup>	4	
	CHEM 1315	General Chemistry ( Core II )	5	METR 1313	Introduction to Programming for Meteorology ( or other programming elective from list in major support ) <sup>1</sup>	3	
					First Year Experience (Core V)	3	
	<b>CREDIT HOURS</b>		<b>15</b>	<b>CREDIT HOURS</b>		<b>15</b>	
SOPHOMORE	ENGL 1213 or EXPO 1213	Principles of English Composition ( Core I ) or Expository Writing	3	METR 2213	Physical Meteorology I:Thermodynamics <sup>1</sup>	3	
	METR 2004	Atmospheric Circulations <sup>1</sup>	4	METR 2613	Atmospheric In-Situ & Surface-Based Measurements <sup>1</sup>	3	
	MATH 2934	Differential and Integral Calculus III <sup>1</sup>	4	HIST 1483 or HIST 1493	United States to 1865 ( Core IV ) or United States, 1865 to the Present	3	
	PHYS 2524	General Physics for Engineering and Science Majors <sup>1</sup>	4	P SC 1113	American Federal Government ( Core III )	3	
					General Education Western Culture (Core IV) <sup>2</sup>	3	
	<b>CREDIT HOURS</b>		<b>15</b>	<b>CREDIT HOURS</b>		<b>15</b>	
JUNIOR	METR 3113	Atmospheric Dynamics I: Intro to Atmospheric Kinematics/Dynamics <sup>1</sup>	3	METR 3123	Atmospheric Dynamics II: Theory of Atmospheric Flows <sup>1</sup>	3	
	METR 3513	Atmospheric Chemistry in Weather and Climate <sup>1</sup>	3	METR 3223	Physical Meteorology II: Cloud Physics, Atmos Electricity/Optics <sup>1</sup>	3	
	METR 3323 or MATH 4753	1 or Applied Statistical Methods <sup>1</sup>	3	METR 3334	Principles of Research & Communication in Meteorology <sup>1</sup>	4	
	MATH 3413	Physical Mathematics I <sup>1</sup>	3		General Education World Culture (Core IV) <sup>2</sup>	3	
		General Education Artistic Forms (Core IV) <sup>2</sup>	3		General Education Social Sciences (Core III) <sup>2</sup>	3	
		<b>CREDIT HOURS</b>		<b>15</b>	<b>CREDIT HOURS</b>		<b>16</b>
		<b>SUMMER</b>					
	GIS 5013	Fundamentals of Geographic Information Systems ( Grad. METR elective ) <sup>3</sup>	3				
	<b>CREDIT HOURS</b>		<b>3</b>				
SENIOR	B AD 5010	Foundations of MBA Success <sup>5</sup>	0		MBA Custom Core <sup>5</sup>	2	
	B AD 5101	MBA - Professional Development	1	MKT 5402	Marketing Management <sup>5</sup>	2	
	ACCT 5202	Financial Accounting <sup>5</sup>	2	B AD 5812	Global Business Experience <sup>5</sup>	2	
	FIN 5102	Financial Management <sup>5</sup>	2	B AD 5201	MBA - Professional Development II	1	
	METR 4133	Atmospheric Dynamics III: Mid-Latitude Synoptic-Scale Dynamics <sup>1</sup>	3	METR 4433	Mesoscale Meteorology	3	
	METR 4233	Physical Meteorology III: Radiation and Remote Sensing <sup>1</sup>	3	METR 4523	Climate and the General Circulation	3	
	METR 4424	Synoptic Meteorology Laboratory <sup>1</sup>	4	METR 5433	Advanced Statistical Meteorology ( Grad. METR elective ) <sup>3</sup>	3	
	METR 4913	Senior Seminar	3	METR 5553	Climate and Renewable Energy ( Grad. METR elective ) <sup>3</sup>	3	
	METR 5713	Private Sector Meteorology ( Grad. METR elective ) <sup>3</sup>	3				
	<b>CREDIT HOURS</b>		<b>21</b>	<b>CREDIT HOURS</b>		<b>19</b>	
FIFTH YEAR	B AD 5102	Managerial Economics <sup>5</sup>	2		MBA Custom Core <sup>5</sup>	2	
	B AD 5832	Applied Field Project <sup>5</sup>	2	B AD 5822	Business Consulting Practicum <sup>5</sup>	2	
	MGT 5702	Organizational Behavior <sup>5</sup>	2	B AD 5902	Strategic Management <sup>5</sup>	2	
	MIT 5602	Management Information Systems <sup>5</sup>	2	L S 5802	Business Ethics/Legal <sup>5</sup>	2	
		MBA Elective <sup>4,5</sup>	2		MBA Elective <sup>4,5</sup>	2	
		MBA Elective <sup>4,5</sup>	2		MBA Elective <sup>4,5</sup>	2	
	<b>CREDIT HOURS</b>		<b>12</b>	<b>CREDIT HOURS</b>		<b>12</b>	

<sup>1</sup> Students must attain a grade of C or better in all MATH, PHYS, and C S, and in METR courses that are direct prerequisites for other METR courses.

<sup>2</sup> To be chosen from the University-Wide General Education Approved Course List for Core III (Social Science) and Core IV (Humanities). At least three hours must be upper-division outside the major.

<sup>3</sup> The courses are counted towards both the undergraduate Meteorology and graduate Business degrees.

<sup>4</sup> To be chosen from an approved list of MBA electives.

<sup>5</sup> MBA courses that are 8 weeks long.

- Students may enter the accelerated program based on the undergraduate degree pattern offered in the year they first enrolled in the Oklahoma State System of Higher Education or later. Students must maintain a 3.0 GPA from the time of entering the program until graduation.
- Students who have not completed two years of the same language in high school are required to take two college courses in the same language. This additional coursework may add 6-10 hours to the minimum hours required for graduation.