

REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN METEOROLOGY

COLLEGE OF ATMOSPHERIC AND GEOGRAPHIC SCIENCES

THE UNIVERSITY OF OKLAHOMA

GENERAL REQUIREMENTS

Total Credit Hours **125-126***
 Total Upper-Division Credit Hours **52**
Minimum Retention/Graduation Grade Point Averages:
 Minimum in OU Coursework **2.00**
 Minimum in Major Coursework- Combined and OU **2.00**
 Overall - Combined and OU **2.00**

1
 For Students Entering the Oklahoma State System for Higher Education
Summer 2010 through Spring 2011

3 Meteorology
B685
 Bachelor of Science in Meteorology

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

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
FRESHMAN	ENGL 1113, Principles of English Composition (Core I)	3	ENGL 1213, Principles of English Composition (Core I), or	3
	⁵ MATH 1823, Calculus & Analytic Geometry I (Core I)	3	EXPO 1213, Expository Writing (Core I)	
	CHEM 1315, General Chemistry (Core II)	5	⁵ MATH 2423, Calculus & Analytic Geometry II (Core I)	3
	HIST 1483 or 1493, U.S. (Core IV)	3	⁵ C S 1313, Programming for Non-Majors	3
	METR 1111, Orientation to Professional Meteorology	1	PHYS 1311, General Physics Laboratory I	1
			⁵ PHYS 2514, General Physics for Engr. & Science (Core II)	4
			P SC 1113, American Federal Government (Core III)	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	17
SOPHOMORE	MATH 2433, Calculus & Analytic Geometry III	3	⁵ MATH 2443, Calculus & Analytic Geometry IV	3
	⁵ METR 2011, Intro. to Meteorology I Laboratory	1	⁵ METR 2021, Intro. to Meteorology II Laboratory	1
	⁵ METR 2013, Introduction to Meteorology I	3	⁵ METR 2023, Introduction to Meteorology II	3
	⁵ PHYS 2524, General Physics for Engr. & Science Majors	4	¹ General Education Western Civilization & Culture (Core IV)	3
	PHYS 1321, General Physics Laboratory II	1	² One of the following: AGSC 1013; AGSC 2014; GEOL 1114; ASTR 1504; BOT 1114; CHEM 1415; or ZOO 1114	4-5
¹ General Education Understanding Artistic Forms (Core IV)	3	¹ General Education Social Sciences (Core III)	3	
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	17-18
JUNIOR	⁵ MATH 3413, Physical Mathematics I	3	⁵ METR 3123, Atmospheric Dynamics II: Theory of Atmos. Flows	3
	⁵ METR 3113, Atmospheric Dynamics I: Atmos. Kinematics/Dynamics	3	⁵ METR 3223, Physical Meteorology II: Cloud Physics, Atmospheric Electricity and Optics	3
	⁵ METR 3213, Physical Meteorology I: Thermodynamics	3	³ Math Elective, or approved minor/area of concentration	3
	⁵ METR 3613, Meteorological Measurements	3	⁴ Science Elective, or approved minor/area of concentration	3
	Writing/Communications Elective — One of the following:	3	¹ General Education Non-Western Culture (Core IV)	3
	COMM 1113, Principles of Communication			
	COMM 2613, Public Speaking			
	ENGL 3153, Technical Writing			
GEOL 3333, Geowriting				
HON 3980, Honors Research (must be in the Honors College)				
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15
SENIOR	⁵ METR 4911, Senior Seminar (Capstone)	1	METR 4433, Mesoscale Meteorology	3
	1 of the following 2: METR 4313, Statistical Meteorology, or MATH 4753, Applied Statistical Methods	3	METR 4922, Senior Seminar II (Capstone)	2
	⁵ METR 4133, Atmospheric Dynamics III: Mid-Latitude Synoptic-Scale Dynamics	3	Meteorology, Hydrology or Climatology Elective	3
	⁵ METR 4233, Physical Meteorology III: Radiation & Climate	4	⁴ Science Elective, or approved minor/area of concentration	3
	⁵ METR 4424, Synoptic Meteorology Laboratory	4	⁴ Science Elective, or approved minor/area of concentration	3
	Science Elective or Approved Minor/Area of Concentration	3		
	TOTAL CREDIT HOURS	17	TOTAL CREDIT HOURS	14

* Students who have not completed two years of the same foreign language in high school are required to take two college courses in the same foreign language. This additional coursework may add 6-10 hours to the minimum hours required for graduation.

¹ 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.**

² AGSC 1013 or 2014 fulfills a College of Atmospheric and Geographic Sciences requirement for a geography course. **If AGSC 1013 or 2014 is not taken, a faculty-adviser-approved science course in geography must be taken.**

³ An upper-division math course. May be exchanged for a course in an area of concentration or approved minor (see reverse side).

⁴ Minimum of nine upper-division hours of faculty-adviser-approved science courses in geography, geology, geophysics, engineering, math, physical sciences and/or biological sciences or faculty-adviser-approved courses in a minor or area of concentration. If AGSC 1013 or 2014 is not taken, three hours must be in geography.

⁵ **Students must attain a grade of C or better in all MATH, PHYS, C S, and METR courses that are direct prerequisites for METR courses. Please see reverse side for these prerequisites.**

* This course fulfills the Computer Literacy Requirement for graduation as required by the Oklahoma State Regents for Higher Education.

NOTE: No more than 52 hours of Meteorology coursework may be taken to fulfill the 125-126 minimum credit hours required.

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 successfully completing 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 P SC 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) Note: Meteorology requires two courses for completion of the Capstone Experience, METR 4911 and METR 4922.