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

For Students Entering the Oklahoma State System for Higher Education:

Summer 2018 through Spring 2019

GENERAL REQUIREMENTS

 Total Credit Hours
 125-126

 Total Upper-Division Credit Hours
 52

 Minimum Retention/Graduation Grade Point Averages:
 2.25

 Minimum in OU Coursework
 2.25

 Minimum in Major Coursework - Combined and OU
 2.25

 Overall - Combined and OU
 2.25

Meteorology

B685

Bachelor of Science in

Meteorology

OU encourages students to complete at least 32 hours of applicable	e coui	sework each year to have the oppo	ortunity	to graduate in four years.				
GENERAL EDUCATION AND COLLEGE REQUIREMENTS Courses graded P/NP will not apply.		Courses required for major support may <u>not</u> also fulfill University-Wide General Education Requirements						
Courses for fulfillment of General Education and College of Atmospheric & Geographic		MAJOR REQUIREMENTS MAJOR SUPPORT REQUIREMENTS						
Sciences requirements must be from the approved General Education course list at http://www.ou.edu/content/gened/courses.html.		RE (40 hours, 16 courses)		MATH 2934, Differential & Integral Calc. III, or	3-4			
University-Wide General Education (minimum 40 hours) and		EOROLOGY COURSES		MATH 2443, Calc. & Analytic Geom. IV				
College of Atmospheric and Geographic Sciences Requirements	1111	Orientation to Professional Meteorology	1	PHYS 1311, General Physics Lab I	1			
Courses graded P/NP will not apply	2011	Intro. to Meteorology I Lab	1	PHYS 1321, General Physics Lab II	1			
	2013	0.	3	MATH 3413, Physical Mathematics I	3			
Core Area I: Symbolic and Oral Communication (9-19 hours, 3-5 courses) A. English Composition (6 hours, 2 courses)	2021	Intro. to Meteorology II Lab	1	METR 4313, Statistical Meteorology, or	3			
1. English 1113, Principles of English Composition	2023	Intro. to Meteorology II	3	MATH 4753, Applied Statistical Methods				
2. English 1213, Principles of English Composition, or	3113		3					
EXPO 1213, Expository Writing		Atmospheric Kinematics/Dynamics		Communication Elective: one course				
B. Foreign Language (0-10 hours in the same language)	3123	Atmospheric Dynamics II: Theory of Atmospheric Flows	3	from the following:				
Students who have not completed two years of the same foreign language in high	3213	•	3	COMM 1113, Princ. of Communication				
school are required to take two college courses in the same foreign language.		Thermodynamics	-	COMM 2613, Public Speaking ENGL 3153, Technical Writing, or				
1. Beginning Course (0-5 hours)	3223	Physical Meteorology II: Cloud Physics, Atmos. Electricity/Optics	3	EXPO 1223, Expository Writing GEOL 3333, Geowriting				
2. Beginning Course, continued (0-5 hours)	3613	Meteorological Measurement Systems	3	METR 3980, Honors Research JMC 2033, Writing for Mass Media				
C. Mathematics (3 hours, 1 course). *MATH 1914, Differential & Integral Calculus I	4133	Atmospheric Dynamics III: Mid-Latitude Synoptic-Scale Dynamics	3		3			
Core Area II: Natural Science (7 hours, 2 courses) including one laboratory component.	4233	Physical Meteorology III: Radiation and Climate	3	Science Elective: one course from the				
1. Science with Lab: *CHEM 1315, General Chemistry	4424		4	following:				
2. Science without Lab: *PHYS 2514, General Physics for Engr. & Science Majors	4433	Mesoscale Meteorology	3	AGSC 1013, Extreme Weather & Climate				
2. Science without Lab. 11113 2514, General Physics for Engl. & Science Wajors	4911	61	1	AGSC/GEOL 2014, The Earth System				
Core Area III: Social Science (6 hours, 2 courses)	4922	Senior Seminar II (Capstone)	2	GEOL 1114, Physical Geology ASTR 1504, General Astronomy				
1. Political Science 1113, American Federal Government				ASTR 1514, Astronomy: Exploring the				
2				Universe, with Lab				
<u> </u>				BIOL 1114, Introductory Zoology				
Core Area IV: Humanities (12 hours, 4 courses)		orology, Hydrology or Climatology r-division elective:		CHEM 1415, General Chemistry (cont.)				
a: Understanding Artistic Forms (3 hours, 1 course)	uppe			GEOG 1114, Physical Geography				
b. Western Civilization and Culture (6 hours, 2 courses)			3	PBIO 1114, General Botany				
1. History 1483, U.S., 1492-1865, or History 1493, U.S., 1865-Present,					4-5			
2 (excluding HIST 1483 and 1493)				Free Electives				
c. Non-Western Culture (3 hours, 1 course):				Electives to bring total applicable hours to 125-126 including 52 upper-divisionhours.				
Core Area V: Senior Capstone Experience (3 hours, 2 courses):	1			o fire states				
1. METR 4911, Senior Seminar								
2. METR 4922, Senior Seminar II								
At least three hours of Upper-Division General Education coursework must be completed outside the major.				Electives may be used to fulfill the requirements for a minor, if desired, but				
*College of Atmospheric and Geographic Sciences requirements				must include at least nine hours of upper- division coursework.				
Additional College of Atmospheric and Geographic Sciences	1							
Bachelor of Science Requirements:								
1. MATH 2924, Differential & Integral Calculus II	1							
2. PHYS 2524, General Physics for Engr. & Science Majors	1							
3. C S 1313, Pro gram ming for Non-Ma jors, or METR 1313, Introduction to Programming for Meteorology								
MATH 1823, 2423, and 2433 will also fulfill the College's calculus requirement.								

INFORMATION CONCERNING GENERAL RULES, REGULATIONS AND MINIMUM REQUIREMENTS

TOTAL HOURS: A minimum of 125-126 semester hours acceptable toward graduation must be completed.

UPPER-DIVISION HOURS: A minimum of 52 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.

Refer to the OU General Catalog for more complete information.

Suggested Semester Plan of Study - Bachelor of Science in Meteorology (B685)

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 SEM	ESTER	Hours		SECOND SEMESTER	Hours			
FRESHMAN	ENGL1113, Principles of English Comp ² MATH1914, Differential & Integral CalcCHEM1315, General Chemistry (Core IIHIST1483 or 1493, U.S. (Core IV)METR1111, Orientation to Professional	ulus I (Core I)	3 4 5 3 1	EXPO	 H 2924, Differential & Integral Calculus II (Core I) 1311, General Physics Laboratory I 	3 4 1 4 3			
	TOTAL CREDIT HOURS		16	тот	AL CREDIT HOURS	15			
SOPHOMORE	PHOP 2MATH 2934, Differential & Integral CalculusIII 2METR 2011, Intro. to Meteorology I Laboratory 2METR 2013, Introduction to Meteorology I 2PHYS 2524, General Physics for Engr. & Science Majors PHYS 1321, General Physics Laboratory II ¹ General Education Understanding Artistic Forms (Core IV)		4 1 3 4 1 3	 ²C S 1313, Programming for Non-Majors, or METR 1313 ²METR 2021, Intro. to Meteorology II Laboratory ²METR 2023, Introduction to Meteorology II ¹General Education Western Civilization & Culture (Core IV) One of the following: AGSC 1013; AGSC 2014; GEOG 1114; GEOL 2014; GEOL 1114; ASTR 1504; ASTR 1514; BOT 1114; CHEM 1415; or ZOO 1114 ¹General Education Social Sciences (Core III) 		3 1 3 4-5 3			
	TOTAL CREDIT HOURS		16	TOT	AL CREDIT HOURS	17-18			
JUNIOR	PODE ² MATH 3413, Physical Mathematics I ² METR 3113, Atmospheric Dynamics I: Atmos. Kinematics/Dynamics ² METR 3213, Physical Meteorology I: Thermodynamics METR 3613, Meteorological Measurements Writing/Communications Elective — One of the following: COMM 1113; COMM 2613; ENGL 3153; GEOL 3333; JMC 2033; or HON 3980, Honors Research (must be in the Honors College)		3 3 3 3 3	² MET Free E Free E	 ²METR 3123, Atmospheric Dynamics II: Theory of Atmos. Flows ²METR 3223, Physical Meteorology II: Cloud Physics, Atmospheric Electricity and Optics Free Elective Free Elective General Education Non-Western Culture (Core IV) 				
	TOTAL CREDIT HOURS		15	тот	AL CREDIT HOURS	15			
SENIOR	² METR 4911, Senior Seminar (Capstone)			1 METR 4433, Mesoscale MeteorologyMETR 4922, Senior Seminar II (Capstone) 3 Meteorology, Hydrology or Climatology Upper-Division Elective 3 Upper-Division Free Elective 3 Upper-Division Free Elective 4 3					
	TOTAL CREDIT HOURS			TOT	AL 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. 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. 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. NOTE: No more than 52 hours of Meteorology coursework may be taken to fulfill the 125-126 minimum credit hours required. Bachelor's degrees require a minimum of 48 hours of upper-division (3000-4000) coursework. This plan of study should not be used in lieu of academic advisement.									
Comput	Computer Science Area of Concentration Minor in Broadcast Meteorolog		eorology		Additional Minors				
The School of Meteorology has joined with the School of Computer Science in the College of Engineering to provide an Area of Concentration within the meteorology curriculum for students interested in further developing their skills in the use of computers in science, engineering, and business. Additional information is available from your faculty adviser.			Communication logy for eers in broadcast lication and dditional		Minors in Mathematics, Business, Chemistry, Computer Science, Environmental Science, Geography, Geology, Hydrologic Science, Interdisciplinary Perspectives on the Environment, and Physics Minors in mathematics, business, chemistry, computer science, environmental science, geography, geology, hydrologic science, interdisciplinary perspectives on the environment, and physics are available and students are encouraged to consider one or more of these minors. Students may obtain a minor in mathematics by taking one additional 4000+ MATH course in addition to those required in the curriculum. Additional information is available from your faculty adviser or from the Atmospheric and Geographic Sciences Dean's Office, National Weather Center, Room 3630.				