

REQUIREMENTS FOR THE MASTER 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 2025 through Spring 2026

General Requirements	
Minimum Total Hours (Thesis)	30
Minimum Total Hours (Non-Thesis)	31

Program
Atmospheric Science
M085
Master of Science

REQUIRED COURSES

THESIS OPTION

Code	Title	Credit Hours
Required Courses (must be completed with a B grade or better)		
METR 5003	Fundamentals of Atmospheric Science	3
METR 5113	Geophysical Fluid Dynamics	3
METR 6970	Seminar (minimum 1 hour; may be repeated for up to 4 hours)	1-4
Choose one of the following courses from the Atmospheric Science areas		3
<i>Dynamics options</i>		
METR 5103	Boundary Layer Dynamics	
METR 5133	Synoptic-Dynamics	
METR 5143	Mesoscale-Dynamics	
<i>Physics options</i>		
METR 5223	Atmospheric Radiation	
METR 5723	Atmospheric Composition	
METR 5233	Cloud and Precipitation Physics	
<i>Climate options:</i>		
METR 5503	Climate Dynamics and Global Physical Climatology	
METR 5583	General Circulation of the Atmosphere	
METR 5543	Global Climate Change	
Thesis		
METR 5980	Research for Master's Thesis	5
Meteorology Electives (must be completed with a B grade or better)		
Choose 6 hours of coursework in consultation with advisor and committee ¹		6
Electives		
Choose 9 hours from the following:		9
Additional METR courses		
Graduate-level courses from other departments		
METR 5990	Independent Study (6 hours maximum)	
Total Credit Hours		30

¹ Excluding METR 5990.

NON-THESIS OPTION

Code	Title	Credit Hours
Required Courses (must be completed with a B grade or better)		
METR 5003	Fundamentals of Atmospheric Science	3
METR 5113	Geophysical Fluid Dynamics	3
Choose one of the following courses from the Atmospheric Science areas		3
<i>Dynamics options</i>		
METR 5103	Boundary Layer Dynamics	
METR 5133	Synoptic-Dynamics	
METR 5143	Mesoscale-Dynamics	
<i>Physics options</i>		
METR 5223	Atmospheric Radiation	
METR 5723	Atmospheric Composition	
METR 5233	Cloud and Precipitation Physics	
<i>Climate options:</i>		
METR 5503	Climate Dynamics and Global Physical Climatology	
METR 5583	General Circulation of the Atmosphere	
METR 5543	Global Climate Change	
METR 6970	Seminar (minimum 1 hour; may be repeated for up to 4 hours)	1-4
Meteorology Electives (must be completed with a B grade or better)		
Choose 9 hours of coursework in consultation with advisor and committee ¹		9
Electives		
Choose 12 hours from the following:		12
Additional METR courses		
Graduate-level courses from other departments		

METR 5990	Independent Study (6 hours maximum)	Total Credit Hours
		31

¹ Excluding METR 5990.

GENERAL REQUIREMENTS FOR ALL MASTER'S DEGREES

The master's degree requires the equivalent of *at least* two semesters of satisfactory graduate work and additional work as may be prescribed for the degree.

All coursework applied to the master's degree must carry graduate credit.

Master's degree programs which require a thesis consist of *at least* 30 credit hours. All non-thesis master's degree programs require *at least* 30 credit hours.

Credit transferred from other institutions must meet specific criteria and is subject to certain limitations.

Courses completed through correspondence study may *not* be applied to the master's degree.

To qualify for a graduate degree, students must achieve an overall grade point average of 3.0 or higher in the degree program coursework and in all resident graduate coursework attempted. A student must also have at least a 3.0 in all coursework (including undergraduate coursework if any).

Additional information for master's degree students may be found in the Graduate College Bulletin.

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