

**REQUIREMENTS FOR THE GRADUATE CERTIFICATE**  
**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 ..... 12

Program
Climate Adaptation and Mitigation G025 Graduate Certificate

**CERTIFICATE REQUIREMENTS**

Code	Title	Credit Hours
<b>Climate System Fundamentals <sup>1</sup></b>		
GEOG 5273	Regional Climatology	3
<b>Techniques Fundamentals <sup>1</sup></b>		
GIS 5013	Fundamentals of Geographic Information Systems	3
or GIS 5133	Fundamentals of Remote Sensing	
<b>Adaptation/Mitigation Fundamentals <sup>1</sup></b>		
Choose one of the following:		3
GEOG 5343	Climate, History, and Society	
GEOG 5970	Special Topics/Seminar (Topic: Climate CO2 Removal Strategies)	
<b>Advanced/Applied Courses</b>		
Choose one of the following:		3
GEOG 5023	Geography of Health and Disease	
GEOG 5043	Urban Climatology	
GEOG 5183	Patterns and Processes in Landscape Ecology	
GEOG 5283	Biogeography	
GEOG 5293	Hydrologic Science	
GEOG 5423	Environmental Justice	
GEOG 5583	Energy Systems and Sustainability	
GEOG 5653	Urban Sustainability: Nature, Justice, and the City	
GEOG 5663	Water and Society	
GEOG 5713	Dynamic Modeling of Socio-Environmental Systems	
GEOG 5943	Natural Hazards	
GEOG 5970	Special Topics/Seminar (Topic: Human Impact on the Earth)	
GIS 5923	Spatial Statistics	
GIS 5653	Spatial Programming and GIS	
CEES 5123	Climate Change and Impacts on Water Energy Food Nexus	
CEES 5933	Climate Change and Water Sustainability	
COMM 5393	Risk and Crisis Communication	
IAS 5653	Global Environmental Politics	
METR 5503	Climate Dynamics and Global Physical Climatology	
NAS 5423	Issues in Native American Environment and Sustainability	
P SC 5003	Introduction to Public Administration	
RCPL 5173	Urban and Regional Analysis	
RCPL 5203	Urban Land Use Controls	
RCPL 5283	Public Health and the Built Environment	
SOC 5893	Seminar in Environment and Society	
<b>Total Credit Hours</b>		<b>12</b>

<sup>1</sup> If the student previously finished a fundamentals course as an undergraduate, they should take an additional course from the Advanced/Applied list instead.

A graduate *certificate* is not a graduate *degree*. A graduate degree represents a program of independent inquiry beyond the depth of coursework alone, while a graduate certificate represents a set of courses only.

- All courses must be taken at OU. No transfer credit will apply.
- No course substitutions are permitted for graduate certificates.
- Coursework applied to a graduate certificate cannot be more than five years old as of the semester the graduate certificate is awarded.
- Students must earn a grade point average of 3.00 or higher on all coursework applied to the graduate certificate.

More information in the catalog: (<http://ou-public.courseleaf.com/atmospheric-geographic-sciences/geography-environmental-sustainability/climate-adaptation-mitigation-grad-certificate/>).