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 2023 through Spring 2024

General Electives
Choose two courses in Geography
GEOG 6973
GEOG 6953

Guided Electives
Choose one course in Geography
Choose one course in Techniques, examples include the following:

C S 5093 Visual Analytics
GRAD 5203 EOS Data Analytics
RCPL 5463 Geographic Information Systems for Land Use Planning
RCPL 5970 Special Topics/Seminar (Advanced GIS)
PBIO 5733 Environmental Remote Sensing
CEES 5903 Remote Sensing Hydrology
METR 5673 Weather Radar Theory and Practice

Choose one course in Geography
GEOG 5980 Research for Master’s Thesis

Total Credit Hours

Required Courses (must be completed with a B grade or better)
GEOG 6953 Research and Professional Development
GEOG 6973 Thinking about Geography and Environmental Sustainability
GIS 5923 Spatial Statistics

Guided Electives 1 Choose two GIS courses, examples include the following:

GIS 5013 Fundamentals of Geographic Information Systems
GIS 5133 Fundamentals of Remote Sensing
GIS 5233 Digital Image Processing
GIS 5253 GIS Applications
GIS 5453 Advanced GIS and Spatial Analysis
GIS 5653 Spatial Programming and GIS

Choose one course in Techniques, examples include the following:

C S 5093 Visual Analytics
GRAD 5203 EOS Data Analytics
RCPL 5463 Geographic Information Systems for Land Use Planning
RCPL 5970 Special Topics/Seminar (Advanced GIS)
PBIO 5733 Environmental Remote Sensing
CEES 5903 Remote Sensing Hydrology
METR 5673 Weather Radar Theory and Practice

Choose one course in Geography
GEOG 5980 Research for Master’s Thesis

Total Credit Hours

<table>
<thead>
<tr>
<th>Program</th>
<th>Geography and Environmental Sustainability: Geospatial Technologies M463 Q269 (M464 Q269 Online)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Science</td>
<td>33</td>
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</tbody>
</table>

1Guided electives will be selected by the student under guidance of her/his advisory committee and as approved by the graduate liaison.

SUGGESTED GEOGRAPHY ELECTIVES
Examples of possible Geography courses include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>GEOG 5513</td>
<td>Real-world Applications of Climate and Weather Information</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5143</td>
<td>Ecosystem Services</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5253</td>
<td>The Economics of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5283</td>
<td>Biogeography</td>
<td>3</td>
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<tr>
<td>GEOG 5293</td>
<td>Hydrologic Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5343</td>
<td>Climate, History, and Society</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5433</td>
<td>Sustainability: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5583</td>
<td>Energy Systems and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5713</td>
<td>Dynamic Modeling of Socio-Environmental Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5943</td>
<td>Natural Hazards</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 5970</td>
<td>Special Topics/Seminar (Topic: Economics, Policy and Technology)</td>
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<tr>
<td>GEOG 5963</td>
<td>Natural Resource Economics</td>
<td>3</td>
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<td>GEOG 6210</td>
<td>1-3</td>
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<tr>
<td>GEOG 6240</td>
<td>Seminar in Geography and Environmental Sustainability</td>
<td>1-3</td>
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</table>

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.