# Requirements for the Master of Science

**College of Atmospheric and Geographic Sciences**

**The University of Oklahoma**

## General Requirements

**Minimum Total Hours (Thesis):** 30

**Minimum Total Hours (Non-Thesis):** 33

### Required Courses

**Required Courses (9 hours):**

*These three courses must be completed with a B grade or better.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 6953, Research Methods in Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 6973, Contemporary Geographic Thought</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5923, Spatial Statistics</td>
<td>3</td>
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</tbody>
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**Guided Electives (15-18 hours):**

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

All students need to take two 3-hr courses in GIS (6 hrs).

Examples of possible GIS courses include:
- GIS 5013 Fundamentals of GIS
- GIS 5133 Fundamentals of Remote Sensing
- GIS 5233 Digital Image Processing
- GIS 5253 GIS Applications
- GIS 5453 Advanced GIS & Spatial Analysis
- GIS 5653 Spatial Programming and GIS
- GEOG 5623 Seminar in GIS Design

All students need to take one additional 3-hr Techniques course (3 hrs).

Examples of possible Techniques courses include:
- MIS 5613 Database Design & Management
- CS 5093 Visual Analytics
- METR 5393 Automated Analysis of Spatial Grids
- RCPL 5463 Computer Mapping & GIS in Planning
- RCPL 5970 Advanced GIS
- PBIO 5733 Environmental Remote Sensing
- CEES 5903 Remote Sensing Hydrology
- METR 5673: Weather Radar

**Thesis students** need to take one 3-hr course in Geography.

**Non-thesis students** need to take at least two 3-hr Geography courses (3-6 hrs).

**Thesis students** must take 6 hours of GEOG 5980, Research for Master’s Thesis, which will apply towards the guided elective hours.

**General Electives (3-9 hours):**

Graduate-level electives, as approved by the advisory committee and graduate liaison, to bring total applicable hours to 30 (Thesis option) or 33 (Non-Thesis option).

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A student who has done satisfactory graduate work and has earned a 3.0 grade point average may file for master’s candidacy.

Program effective SU16. Check sheet version 2/2016