Graduate Level GIS Certificate

SUMMARY
Geographic information science (GIS) involves the theory and methodology behind capturing, storing, analyzing and communicating digital information about the Earth and phenomena distributed on or near its surface. From its initial home in the discipline in geography, GIS has diffused to many fields concerned with geographic phenomena. Career opportunities in GIS continue to expand both locally and nationally.

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Prefix &amp; Number</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Required</td>
<td>GEOG 6100</td>
<td>Introduction to GIS and Cartography</td>
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<td>GEOG 6140</td>
<td>Advanced Methods in GIS</td>
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<td></td>
<td>GEOG 6150</td>
<td>Geospatial Big Data</td>
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<td>GEOG 5170</td>
<td>Geospatial Field Methods: GPS and Drones</td>
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<td>GEOG 6180</td>
<td>Geoprocessing with Python</td>
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<td>GEOG 6161</td>
<td>Capstone in GIS</td>
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<td>Electives (pick 1)</td>
<td>CMP/REDEV 6450</td>
<td>Geographic Information Systems in Planning</td>
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<td>CMP 6455</td>
<td>Advanced GIS Applications</td>
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<td>GEOG 6160</td>
<td>Spatial Modeling and Geocomputation</td>
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<td>GEOG 6162</td>
<td>Project Management</td>
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<td>GEOG 6165</td>
<td>Data visualization</td>
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<td>GEOG 6190</td>
<td>GIS Environmental &amp; Public Health</td>
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It is the responsibility of the student to submit an Application for Certificate Completion form for any and all certificates pursued through the Geography Department during the student’s last semester before graduation (or during the last semester of coursework to complete the certificate for non-matriculated students or students who have already graduated). The Certificate Completion form can be picked up in the Geography Main Office or from the Geography Advisor and must be submitted to the Geography Advisor before grades are posted.

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