GEOSPATIAL TECHNOLOGIES MINOR

REQUIREMENTS
A total of 15 credits with at least 9 credits at or above the 100-level.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENSC 130</td>
<td>Global Environmental Assessment</td>
<td></td>
</tr>
<tr>
<td>CE 010</td>
<td>Geomatics</td>
<td></td>
</tr>
<tr>
<td>CDAE 101</td>
<td>Drafting &amp; Design: SketchUp II</td>
<td></td>
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<tr>
<td>ENGR 002</td>
<td>Graphical Communication</td>
<td></td>
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<tr>
<td>GEOG 081</td>
<td>Geospatial Concepts &amp; Visualization</td>
<td></td>
</tr>
<tr>
<td>GEOG 144</td>
<td>Geomorphology</td>
<td></td>
</tr>
<tr>
<td>or GEOL 151</td>
<td>Geomorphology</td>
<td></td>
</tr>
<tr>
<td>GEOL 185</td>
<td>Geocomputing</td>
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</tbody>
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Courses in 2 or more categories (Geographic Information Systems, Remote Sensing, and Data Science) 6-9

- **Geographic Information Systems - Choose 1:** 3
  - NR 143 Intro to Geog Info Systems
  - or GEOG 184 Geog Info: Concepts & Applic

- **Remote Sensing - Choose 1:** 3
  - NR 146 Remote Sensing of Natural Res
  - or FOR 146 Remote Sensing of Natural Res
  - GEOG 185 Remote Sensing

- **Data Science - Choose from:** 3-6
  - CS 008 QR: Intro to Web Site Dev
  - CS 021 QR: Computer Programming I
  - CS 087 QR: Intro to Data Science
  - or STAT 087 QR: Intro to Data Science
  - CS 110 QR: Intermediate Programming
  - CS 142 QR: Advanced Web Design
  - CS 148 QR: Database Design for Web
  - STAT 087 QR: Intro to Data Science
  - or CS 087 QR: Intro to Data Science

I or more advanced or capstone experience(s) 3-6

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<tbody>
<tr>
<td>NR 242</td>
<td>Adv Geospatial Techniques</td>
</tr>
<tr>
<td>NR 243</td>
<td>GIS Practicum</td>
</tr>
<tr>
<td>GEOG 281</td>
<td>Adv Topic: GIS &amp; Remote Sensing (b, Advanced GIS Applications)</td>
</tr>
</tbody>
</table>

PRE/CO-REQUISITES
Variable, depending on upper level courses chosen.

OTHER INFORMATION
Geography majors who undertake the Geospatial Technologies minor are required to complete 33 credits in Geography and 15 credits towards the Geospatial Technologies minor. GEOG 081 may be used to count towards both the major and the minor. However, students are still required to complete 33 credits of geography courses.