### UNIVERSITY STUDIES - BS, GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY CONCENTRATION

#### Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 390</td>
<td>Principles of Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 361</td>
<td>Remote Sensing in Geosciences</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 352/GEOL 352</td>
<td>GNSS in the Geosciences</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Advanced Topics in GIS (Geographic Information Systems)</td>
<td>4</td>
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</tbody>
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Select from the following: 6-8

- CSCE 111 Introduction to Computer Science Concepts and Programming
- ESSM 459 Programming for Spatial Data Applications
- GEOG 232 Cartography and Visualization
- GEOG 312 Data Analysis in Geography
- GEOG 392 GIS Programming
- GEOG 398 Interpretation of Aerial Photographs
- GEOG 461 Digital Image Processing in the Geosciences
- GEOG 461 Digital Image Processing in the Geosciences
- GEOG 475 Advanced Topics in GIS (Geographic Information Systems)
- GEOG 479 Principles of Geocomputation

#### University and College Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 213</td>
<td>Planet Earth Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 140</td>
<td>Mathematics for Business and Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Business Calculus</td>
<td>3</td>
</tr>
<tr>
<td>POLS 206</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 207</td>
<td>State and Local Government</td>
<td>3</td>
</tr>
</tbody>
</table>

Life and Physical Sciences elective 8

Select one of the following: 1

- ATMO 201 Weather and Climate
  & ATMO 20:and Weather and Climate
  & OCNG 251Laboratory
  & OCNG 252and Oceanography
  and Oceanography Laboratory
- BIOL 101 Botany
  & BIOL 107 and Zoology
- BIOL 111 Introductory Biology I
  & BIOL 112 and Introductory Biology II
- CHEM 119 Fundamentals of Chemistry I
  & CHEM 120and Fundamentals of Chemistry II

#### General Electives

120 Semester Credit Hours

1 Department requires that you take 8 hours of Life & Physical Sciences in the same discipline to meet this requirement.

2 A graduation requirement includes 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) course and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/). A course satisfying a University Core category, a college/department requirement, or a general elective may be used to satisfy this requirement.