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>
</table>

Select from the following: 6-8

CSCE 111 Introduction to Computer Science Concepts and Programming
ECCB 407 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 Hours</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 202: and Weather and Climate
& OCNG 251: Laboratory
& OCNG 252: and 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 120 and Fundamentals of Chemistry II

GEOL 101 Principles of Geology
& GEOL 102 and Principles of Geology
& GEOL 106 Laboratory
and Historical Geology

PHYS 201 College Physics
& PHYS 202 and College Physics

American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) 6
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) 6
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) 3
Cultural discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/) 2
International and cultural diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) 2
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) 3
Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) 3

Minor 1 15-18
Minor 2 15-18
General electives 26

Total Semester Credit Hours 120

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.