Environmental Remote Sensing & Image Analysis (Minor)

This minor provides graduate students the opportunity to develop a recognized academic credential in remote sensing and image analysis in conjunction with their major program of graduate study. Twelve credit hours, 6 credit hours of required courses and 6 credit hours of elective courses, is required to complete the minor.

Other Requirements
A GIST graduate faculty member must be on the student’s graduate committee. A list of currently approved faculty members can be provided to students upon request. If no graduate committee is required by the student’s program, the student must obtain approval of his or her minor program. Students enrolled in Option B Masters programs are not eligible to declare a minor. Certificate coursework and Minor coursework must be completely independent.

Plan Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 512</td>
<td>Introduction to Environmental Remote Sensing</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>or GIS 712</td>
<td>Environmental Earth Observation and Remote Sensing</td>
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<tr>
<td>ST 533</td>
<td>Applied Spatial Statistics</td>
<td>6</td>
<td>6</td>
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<tr>
<td>or ECE 514</td>
<td>Random Processes</td>
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Elective Courses
Select two courses of the following:

<table>
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<tbody>
<tr>
<td>GIS 512</td>
<td>Introduction to Environmental Remote Sensing</td>
</tr>
<tr>
<td>GIS 520</td>
<td>Spatial Problem Solving</td>
</tr>
<tr>
<td>GIS 530</td>
<td>Spatial Data Foundations</td>
</tr>
<tr>
<td>GIS 595</td>
<td>Special Topics in Geospatial Information Science</td>
</tr>
<tr>
<td>GIS 584</td>
<td>Mapping and Analysis Using UAS</td>
</tr>
<tr>
<td>GIS 712</td>
<td>Environmental Earth Observation and Remote Sensing</td>
</tr>
</tbody>
</table>

SSC 545  Remote Sensing Applications in Soil Science and Agriculture
BAE 536  GIS Applications in Precision Agriculture
MEA 511  Introduction to Meteorological Remote Sensing
ST 533   Applied Spatial Statistics
ECE 751  Detection and Estimation Theory
ECE 759  Pattern Recognition and Machine Learning Methods

Total Hours 12

1  Additional courses may be decided in conjunction with the academic committee.

Faculty
Full Professors
Ross Meentemeyer
Helena Mitasova
Stacy Nelson
Gary Roberson
Sandra Yuter

Associate Professors
Mirela Tulbure
Jeffrey White

Assistant Professors
Josh Gray

Practice/Research/Teaching Professors
Perver Baran
Stacy Supak
Emeritus Faculty
Hugh Devine
Siamak Khorram