Geographic Information Systems (Minor)

The Geographic Information Systems (GIS) minor provides an academic credential for students who want to develop some GIS application skills while pursuing a graduate degree in another discipline. It is designed for students who wish to master the basics of GIS analysis and to develop more advanced skills in a particular application area.

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 510</td>
<td>Fundamentals of Geospatial Information Science and Technology</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>GIS 520</td>
<td>Spatial Problem Solving or GIS 582 Geospatial Modeling</td>
<td>6</td>
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</table>

Elective Courses

See "Elective Courses" listed below

Total Hours 9

Elective Courses

Select three credits from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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<tbody>
<tr>
<td>GIS 512</td>
<td>Introduction to Environmental Remote Sensing</td>
<td>3</td>
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<tr>
<td>GIS 515</td>
<td>Cartographic Design</td>
<td>2</td>
<td></td>
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<tr>
<td>GIS/LAR 517</td>
<td>GIS Applications in Landscape Architecture and Environmental Planning</td>
<td>3</td>
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<tr>
<td>GIS 520</td>
<td>Spatial Problem Solving</td>
<td>3</td>
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<tr>
<td>GIS 521</td>
<td>Surface Water Hydrology with GIS</td>
<td>3</td>
<td></td>
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<tr>
<td>GIS 530</td>
<td>Spatial Data Foundations</td>
<td>3</td>
<td></td>
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<tr>
<td>GIS 535</td>
<td>Web and Mobile GIS Protocols</td>
<td>3</td>
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GIS 595 Special Topics in Geospatial Information Science 1-6
GIS/MEA 582 Geospatial Modeling 3
GIS 584 Mapping and Analysis Using UAS 3
GIS 609 Geospatial Forum 1
GIS 610 Special Topics in Geospatial Information Science 1-6
GIS 711 Geospatial Data Management 3
GIS 712 Environmental Earth Observation and Remote Sensing 3
GIS 713 Geospatial Data Mining 3
GIS 714 Geospatial Computation and Simulation 3
GIS 715 Geovisualization 3
SSC 540 Geographic Information Systems (GIS) in Soil Science and Agriculture 3
SSC 545 Remote Sensing Applications in Soil Science and Agriculture 3
BAE 535 Precision Agriculture Technology 3
BAE 536 GIS Applications in Precision Agriculture 1
MEA 511 Introduction to Meteorological Remote Sensing 3
HI 535 Spatial History 3
ST 533 Applied Spatial Statistics 3

* Other courses not listed can be approved as an elective upon consultation with an advisor.

Faculty

Full Professors

Yu-Fai Leung
Ross Meentemeyer
Helena Mitasova
Stacy Nelson
Gary Roberson
Sandra Yuter

Associate Professors
Mirela Tulbure
Raju Vatsavai
Jeffrey White

Assistant Professors
Josh Gray
Jelena Vukomanovic

Practice/Research/Teaching Professors
Perver Baran
Eric Money
Stacy Supak
Laura Tateosian
Vaishnavi Thakar

Emeritus Faculty
Heather Cheshire
Hugh Devine
Siamak Khorram