## Geospatial Information Science and Technology (MR)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 501</td>
<td>Geospatial Professionalism</td>
<td>21</td>
<td>Core Courses</td>
</tr>
<tr>
<td>GIS 510</td>
<td>Fundamentals of Geospatial Information Science and Technology</td>
<td></td>
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<tr>
<td>GIS 530</td>
<td>Spatial Data Foundations</td>
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<td>GIS 540</td>
<td>Geospatial Programming</td>
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<td>GIS 550</td>
<td>Geospatial Data Structures and Web Services</td>
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<td>GIS 582</td>
<td>Geospatial Modeling</td>
<td></td>
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<td>GIS 590</td>
<td>Geospatial Information Science Master's Project</td>
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<tr>
<td>GIS 660</td>
<td>MGIST Professional Portfolio</td>
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</table>

**Elective Courses**

Choose 12 credit hours of electives from the “Elective Courses” listed below, at least 6 of which must be GIS prefix courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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</thead>
<tbody>
<tr>
<td>GIS 512</td>
<td>Introduction to Environmental Remote Sensing</td>
<td>6</td>
<td></td>
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<tr>
<td>GIS 515</td>
<td>Cartographic Design</td>
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<tr>
<td>GIS 517</td>
<td>GIS Applications in Landscape Architecture and Environmental Planning</td>
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<tr>
<td>GIS 520</td>
<td>Spatial Problem Solving</td>
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</tbody>
</table>

Total Hours: 33

**Elective Courses**

Select at least six hours of GIS prefix courses below:

- GIS 521: Surface Water Hydrology with GIS
- GIS 532: Geospatial Data Science and Analysis
- GIS 535: Web and Mobile GIS Protocols
- GIS 495: Special Topics in GIS
- GIS 595: Special Topics in Geospatial Information Science
- GIS 584: Mapping and Analysis Using UAS
- GIS 609: Geospatial Forum
- GIS 610: Special Topics in Geospatial Information Science
- GIS 630: Independent Study in Geospatial Information Science
- SSC 540: Geographic Information Systems (GIS) in Soil Science and Agriculture
- SSC 545: Remote Sensing Applications in Soil Science and Agriculture
- BAE 535: Precision Agriculture Technology
- BAE 536: GIS Applications in Precision Agriculture
- MEA 511: Introduction to Meteorological Remote Sensing
- MIE 501: Strategic Management Foundations
- HI 535: Spatial History
- BUS 554: Project Management
- COM 521: Communication and Globalization
COM 530  Interpersonal Communication in Science and Technology Organizations
ST 501  Fundamentals of Statistical Inference I
ST 502  Fundamentals of Statistical Inference II
ST 511  Statistical Methods For Researchers I
ST 513  Statistics for Management and Social Sciences I
ST 514  Statistics For Management and Social Sciences II
ST 533  Applied Spatial Statistics
ST 555  Statistical Programming I
ST 556  Statistical Programming II

Total Hours 6

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

Faculty

Full Professors
Sankarasubramanian Arumugam
DelWayne R. Bohnenstiehl
David A. Crouse
George D. Garson
Christopher Graham Healey
Ronnie William Heiniger
George R. Hess
Hamid Krim
Thomas J Kwak
Duane K. Larick
Yu-Fai Leung
Jay Frederick Levine
Ross Kendall Meentemeyer
Helena Mitasova

Associate Professors
William R. Smith
Ranga Raju Vatsavai
Karl William Wegmann
Jeffrey G. White
Stephen B. Wiley

Assistant Professor
Jelena Vukomanovic

Practice/Research/Teaching Professors
Perver Korca Baran
Eric Shane Money
Stacy Kathleen Supak
Laura Gray Tateosian
Vaishnavi Thakar

Lecturers
Juliana Regina Quist