## Geospatial Information Science and Technology (MR)

### Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Courses</strong></td>
<td></td>
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<tr>
<td>GIS 501</td>
<td>Geospatial Professionalism</td>
<td>6</td>
<td></td>
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<tr>
<td>GIS 510</td>
<td>Fundamentals of Geospatial Information Science and Technology</td>
<td>6</td>
<td></td>
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<tr>
<td>GIS 530</td>
<td>Spatial Data Foundations</td>
<td>6</td>
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<tr>
<td>GIS 540</td>
<td>Geospatial Programming Fundamentals</td>
<td>6</td>
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<tr>
<td>GIS 550</td>
<td>Geospatial Data Foundations</td>
<td>6</td>
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<td>GIS 582</td>
<td>Geospatial Modeling</td>
<td>6</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>
<td>6</td>
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<tr>
<td></td>
<td><strong>Elective Courses</strong></td>
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<tr>
<td></td>
<td>Choose 12 credit hours of electives from the &quot;Elective Courses&quot; listed below, at least 6 of which must be GIS prefix courses</td>
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<td></td>
<td><strong>Total Hours</strong></td>
<td>33</td>
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### Elective Courses

Select at least six hours of GIS prefix courses below:

<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>
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<tr>
<td>GIS 515</td>
<td>Cartographic Design</td>
<td>6</td>
<td></td>
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<tr>
<td>GIS 517</td>
<td>GIS Applications in Landscape Architecture and Environmental Planning</td>
<td>6</td>
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</tbody>
</table>

GIS 520  Spatial Problem Solving
GIS 521  Surface Water Hydrology with GIS
GIS 532  Geospatial Data Science and Analysis
GIS 535  Web and Mobile GIS Protocols
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
HI 535  Spatial History
BUS 501  Strategic Management Foundations
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
Stacy A. C. Nelson
Margery Frances Overton
William John Rasdorf
Gary T. Roberson
Sandra E. Yuter

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

Assistant Professors
Jelena Vukomanovic

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