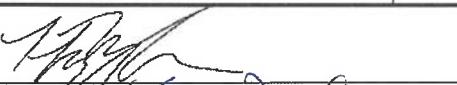
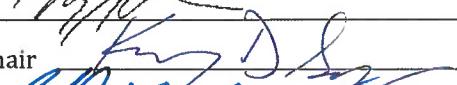
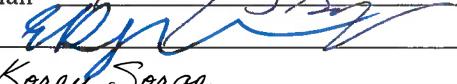
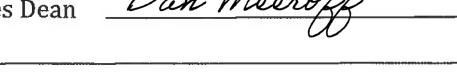


 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST Undergraduate Programs</b>		UUPC Approval <u>2/24/25</u> UFS Approval _____ Banner _____ Catalog _____		
	<b>Department</b> <u>GEOSCIENCES</u> <b>College</b> <u>SCIENCE</u>				
<b>Program Name</b> <u>Geographic Information Systems</u> <u>Undergraduate Certificate</u>		<input type="checkbox"/> <b>New Program*</b> <input checked="" type="checkbox"/> <b>Change Program*</b>	<b>Effective Date (TERM &amp; YEAR)</b> <u>FALL 2025</u>		
<b>Please explain the requested change(s) and offer rationale below or on an attachment.</b> <p>Revise the name of the "Geographic Information Systems" undergraduate certificate to "Geographic Information Science" undergraduate certificate.</p> <p>The name change more accurately reflects the content presented in the program, and will make it consistent with our "Geographic Information Science" undergraduate minor.</p>					
<p><b>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</b></p> <table border="1"> <tr> <td> <b>Faculty Contact/Email/Phone</b>  James Gammack-Clark, <a href="mailto:jgammack@fau.edu">jgammack@fau.edu</a>, 561-297-0314 </td> <td> <b>Consult and list departments that may be affected by the change(s) and attach documentation</b> </td> </tr> </table>				<b>Faculty Contact/Email/Phone</b> James Gammack-Clark, <a href="mailto:jgammack@fau.edu">jgammack@fau.edu</a> , 561-297-0314	<b>Consult and list departments that may be affected by the change(s) and attach documentation</b>
<b>Faculty Contact/Email/Phone</b> James Gammack-Clark, <a href="mailto:jgammack@fau.edu">jgammack@fau.edu</a> , 561-297-0314	<b>Consult and list departments that may be affected by the change(s) and attach documentation</b>				
<b>Approved by</b>  Department Chair   College Curriculum Chair   College Dean   UUPC Chair   Undergraduate Studies Dean   UFS President _____  Provost _____	<b>Date</b>  <u>11/22/24</u>  <u>02/13/25</u>  <u>02/13/25</u>  <u>2/24/25</u>  <u>2/24/25</u>  _____  _____				

Email this form and attachments to [mjenning@fau.edu](mailto:mjenning@fau.edu) seven business days before the UUPC meeting.



## **GEOGRAPHIC INFORMATION ~~SYSTEMS~~ SCIENCE UNDERGRADUATE CERTIFICATE**

*(Minimum of 12 credits required)*

The Department of Geosciences offers undergraduates a certificate in Geographic Information ~~Systems~~ Science. Departmental majors or other students who complete the four required courses (12 credits) below with a grade of "C" or better in each course are entitled to the GIS certificate. Students should consult their departmental advisor or another faculty member about registration for this program. Students may use these courses in the completion of a major. The certificate is available in person or fully online.

### **Required Courses**

Introduction to Mapping and GIS	GIS 3015C	3
Principles of Geographic Information Systems	GIS 4043C	3
Remote Sensing of the Environment	GIS 4035C	3

### ***Choose one of the following elective courses***

Digital Image Analysis	GIS 4037C	3
Applications of GIS	GIS 4048C	3
Web GIS	GIS 4054C	3
Geospatial Databases	GIS 4118	3
Geovisualization and GIS	GIS 4138C	3
Mobile GIS and Drone Technology	GIS 4140C	3

## **ADVANCED GEOGRAPHIC INFORMATION ~~SYSTEMS~~ SCIENCE UNDERGRADUATE CERTIFICATE**

*(Minimum of 9 credits required)*

The Department of Geosciences offers an advanced certificate in Geographic Information **Systems Science** that permits students to develop an in-depth understanding of programming and spatial data analysis beyond the basic GIS certificate. Two required courses and one additional course in an applied area of geographic information science complete the advanced GIS certificate. The certificate is available in person or fully online.

### **Required Courses**

Programming in GIS	GIS 4102C	3
Spatial Data Analysis	GIS 4115C	3

### ***Choose one of the following applied courses***

Applications of GIS	GIS 4048C	3
Web GIS	GIS 4054C	3
Geospatial Databases	GIS 4118	3
Geovisualization and GIS	GIS 4138C	3
Photogrammetry and Aerial Photograph Interpretation	GIS 4021C*	3
Mobile GIS and Drone Technology	GIS 4140C	3
Introduction to Laser Mapping Technology	CCE 4514C	3

\*SUR 4331C - Digital Photogrammetry Principles and Applications is an approved substitute for Geomatics Engineering students.