

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Undergraduate Programs</b>	UUPC Approval <u>3-29-21</u> UFS Approval _____ Banner Posted _____ Catalog _____
	<b>Department</b> Geosciences  <b>College</b> Charles E. Schmidt College of Science	
<b>Program Name</b> Geographic Information Systems Certificate	<input type="checkbox"/> <b>New Program</b>  <input checked="" type="checkbox"/> <b>Change Program</b>	<b>Effective Date</b> (TERM & YEAR)  Fall 2021
<b>Please explain the requested change(s) and offer rationale below or on an attachment</b>  Add the following two courses: -GIS 4054C Web GIS (new course currently in the approval process) -GIS 4140C Mobile GIS & Drone Technology (in catalog)  They represent new areas in our discipline and will add strengths to our programs. As detailed in the proposed catalog text, the department seeks approval to include them into the curriculum of Geographic Information Systems Certificate.		
<b>Faculty Contact/Email/Phone</b>  James Gammack-Clark /gammack@fau.edu	<b>Consult and list departments that may be affected by the change(s) and attach documentation</b>  N/A	
<b>Approved by</b> Department Chair _____ <i>[Signature]</i> College Curriculum Chair <u>Jerry Haky</u> College Dean <u>[Signature]</u> UUPC Chair <u>Jerry Haky</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____	<b>Date</b> _____ <u>2/22/2021</u> _____ <u>3-18-21</u> _____ <u>3/24/2021</u> _____ <u>3-29-21</u> _____ <u>3-29-21</u> _____ _____	

Email this form and attachments to [mjenning@fau.edu](mailto:mjenning@fau.edu) one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

### Geographic Information Systems Certificate

The Department of Geosciences offers undergraduates a certificate in Geographic Information Systems. 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.

<b>Required Courses</b>		
Introduction to Mapping and GIS	GIS 3015C	3
Principles of Geographic Information Systems	GIS 4043C	3
Remote Sensing of the Environment	GIS 4035C	3
<b>Choose one of the following elective courses</b>		
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 & Drone Technology	GIS 4140C	3