

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Undergraduate Programs	UUPC Approval <u>3-29-21</u> UFS Approval _____ Banner Posted _____ Catalog _____
	Department Geosciences College Charles E. Schmidt College of Science	
Program Name Advanced Geographic Information Systems Certificate	<input type="checkbox"/> New Program <input checked="" type="checkbox"/> Change Program	Effective Date (TERM & YEAR) Fall 2021
Please explain the requested change(s) and offer rationale below or on an attachment 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 Advanced Geographic Information Systems Certificate.		
Faculty Contact/Email/Phone James Gammack-Clark /gammack@fau.edu	Consult and list departments that may be affected by the change(s) and attach documentation N/A	
Approved by Department Chair <u>JRC zhc</u> College Curriculum Chair <u>Jerry Haky</u> College Dean <u>EPJ</u> UUPC Chair <u>Jerry Haky</u> Undergraduate Studies Dean <u>Edward Pratt</u> UFS President _____ Provost _____	Date <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 one week before the UUPC meeting so that materials may be viewed on the UUPC website prior to the meeting.

Advanced Geographic Information Systems Certificate

The Department of Geosciences offers an advanced certificate in Geographic Information Systems 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.

Required Courses		
Programming in GIS	GIS 4102C	3
Spatial Data Analysis	GEO 4167C	3
Choose one of the following applied courses		
Applications of GIS	GIS 4048C	3
Geospatial Databases	GIS 4118	3
Geovisualization and GIS	GIS 4138C	3
Web GIS	GIS 4054C	3
Photogrammetry and Aerial Photograph Interpretation	GIS 4021C*	3
Mobile GIS and Drone Technology	GIS 4140C	3
Introduction to Terrestrial Laser Scanning	SUR 4150C	3

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