



NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

**FLORIDA
ATLANTIC
UNIVERSITY**

Department GEOSCIENCES

College SCIENCE

UUPC Approval 2/26/24

UFS Approval _____

Banner _____

Catalog _____

Program Name

Advanced GIS Certificate

New Program*

Change Program*

Effective Date
(TERM & YEAR)

FALL 2024

Please explain the requested change(s) and offer rationale below or on an attachment.

Amend to reflect recent course number change: CCE 4514C (previously SUR 4150C)
Introduction to Terrestrial Laser Scanning
Amend course number of GEO 4167C "Spatial Data Analysis" to GIS 4115C "Spatial Data Analysis"

These amendments are housekeeping items.

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone

James Gammack-Clark, jgammack@fau.edu, 561-297-0314

Consult and list departments that may be affected by the change(s) and attach documentation

DEPARTMENT OF CIVIL, ENVIRONMENTAL AND
GEOMATICS ENGINEERING

Approved by

Department Chair _____

College Curriculum Chair _____

College Dean _____

UUPC Chair _____

Undergraduate Studies Dean _____

UFS President _____

Provost _____

Date

1/31/24

2/15/24

2/16/24

2/26/24

2/26/24

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

ADVANCED GEOGRAPHIC INFORMATION SYSTEMS

UNDERGRADUATE CERTIFICATE

(Minimum of 9 credits required)

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 GIS 4115C	3
<i>Choose one of the following applied courses</i>		
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 Terrestrial Laser Scanning	SUR 4150C CCE 4514C	3

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