TATT	NEW/CHANGE PROC	GRAM REQUEST	UUPC Approval 1/30/23
	Undergraduate Programs		UFS Approval
FLORIDA			Banner
ATLANTIC	Department Civil, Environmental and	Geomatics Engineering	Catalog
UNIVERSITY	College Engineering and Computer Science		
Program Name	1	New Program*	Effective Date
Certificate in Surveying and Mapping			(TERM & YEAR)
Cortinoato III e	and Mapping	<b>✓</b> Change Program*	Fall 2023
Please explain	the requested change(s) and offe	r rationale below or on an	attachment.
	31 (2 credits) and SUR 4331 L (1 cred ftware based and it will best serve the		
	and changes to existing programs must be a		
Faculty Contact/	Email/Phone	Consult and list departments that may be affected by the change(s) and attach documentation	
Sudhagar Nagaraja	n, snagarajan@fau.edu/7-3104	change(s) and actach docum	lentation
Approved by			Date
	ekaisar		01/06/2023
Department Chair	Hondho Ci Reason: I am the author of this	OU=FAU, E=suh@fau.edu, C=US adocument here	
College Curriculur	n Chair Disc 2000 to 101 12-16-80 to East Resort Version: 10.1.1	000	01/09/2023
College Dean Thun, Williams		1/20/22	
UUPC Chair —	Thlyn William udies Dean Dan Meeroff		1/30/23
Undergraduate St	udies Dean Van Wesroff		_1/30/23
UFS President			
Provost			

Email this form and attachments to <a href="migmenting@fau.edu">mjenning@fau.edu</a> seven business days before the UUPC meeting.

Surveying and Mapping Certificate
The Department of Civil, Environmental and Geomatics Engineering offers undergraduates a certificate in Surveying and Mapping. Students are entitled to the certificate by completing a minimum of 12-credits of coursework with a grade of "C" or better. Selected courses must be checked for the proper prerequisites. The certificate is open to both degree-seeking and non-degree-seeking students.

Required Courses (3 credits)				
Geomatics (1)	SUR 3103	2		
Geomatics Lab (1)	SUR 3103L	1		

Select additional courses from below for a minimum of 9 credits					
Digital Photogrammetry Principles and Applications (2)	SUR 4331 <b>C</b>	<del>3</del> <del>2</del>			
Digital Photogrammetry Principles and Applications Lab (2)	SUR 4331L	4			
Automated Surveying and Mapping (2)	SUR 3141	2			
Automated Surveying and Mapping Lab (2)	SUR 3141L	1			
Geodesy and Geodetic Positioning (4)	SUR 4530	2			
Geodesy and Geodetic Positioning Lab (4)	SUR 4530L	1			
Measurement Theory and Data Adjustments (3)	SUR 3520	3			
Engineering and Construction Surveying (4)	SUR 3205	2			
Engineering and Construction Surveying Lab (4)	SUR 3205L	1			
Cadastral Principles and Legal Aspects	SUR 4403	3			
Thermal Infrared Remote Sensing and Applications	SUR 4384	3			
Principles of Geographic Information System	GIS 4043C	3			
Introduction to Laser Mapping Technology	CCE 4514C	3			