

Cover Sheet: Request 11341

certificate - Mapping with Small Unmanned Aerial Systems (sUAS) - Undergrad

Info

Process	Certificate New Ugrad/Pro
Status	Pending
Submitter	Sager, Scott A sasager@ufl.edu
Created	12/8/2016 9:15:51 AM
Updated	1/23/2017 9:30:58 AM
Description of request	new undergraduate certificate

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Forest Resources and Conservation 514946000	Lindberg, William J		12/8/2016
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Brendemuhl, Joel H	Approved by the CALS CC on 1/20/17.	1/23/2017
Added catalog_Mapping with Small Unmanned Aerial Systems (sUASs) - Undergrad.docx					1/9/2017
Office of Institutional Planning and Research	Approved	PV - Office of Institutional Planning and Research	Zeglen, Marie	CIP{ code 03.0501 is approved for this certificate.	1/23/2017
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			1/23/2017
No document changes					
Office of the Registrar					
No document changes					
OIPR Notified					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
Academic Assessment Committee Notified					
No document changes					

Step	Status	Group	User	Comment	Updated
College Notified					
No document changes					

Certificate|New for request 11341

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Request: certificate - Mapping with Small Unmanned Aerial Systems (sUAS) - Undergrad

Description of request: new undergraduate certificate

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Form version: 1

Responses

Certificate Name Mapping with Small Unmanned Aerial Systems (sUAS) - Undergrad

Transcript Title MAPPING - SMALL UNMANNED AERIAL SYSTEMS, UNDERGRAD

Credits 9

Level Baccalaureate

CIP Code 03.0501

Degree Program Geomatics - Forest Resources and Conservation

Effective Term Earliest Available

Effective Year Earliest Available

Certificate Description Focuses on mapping using small Unmanned Aerial Systems (UASs). Emphasis on the use of UASs as a geo-spatial data acquisition tool. Well-suited for students studying Geomatics, as well as disciplines which require high resolution geospatial information such as agriculture, forestry, wildlife management, mining, infrastructure planning and monitoring, and disaster management.

Requirements for Admission High school diploma. Completion of SUR3103C Geomatics with a minimum grade of C. Students can be admitted either as certificate-seeking, or as existing bachelors degree-seeking.

Requirements for Completion Minimum grade of C in the following courses: SUR4501C Foundations in UAS Mapping (3 credits, letter-graded), SUR4940C Practicum in UAS Mapping (3 credits, letter-graded), and SUR4376 Geospatial Applications of UASs (3 credits, letter-graded).

Rationale and Place in Curriculum In 2015 alone it is estimated that UAS will add 1,000 jobs and \$100 million to Florida's economy. In the following two years it is projected that these figures will treble, and nationally it is projected that 70,000 jobs and \$7 billion will be added to the US economy. The growth in UAS has already spawned an international association - the Association for Unmanned Vehicle System International (AUVSI) - which acts as an advocacy group. In Gainesville, several innovative companies that both sell UASs and provide UAS-associated services have arisen, some as start-ups based on research done at UF. We believe that through this Certificate we can shape the way that UAS are deployed for the acquisition of geospatial data.

Student Learning Outcomes 1-literacy in the general area (SUR4501C; assessed through course-related exam/assignment/grade; rubric); 2-ability to understand how UAS's can be deployed in several application areas (SUR4501C, SUR4940C, SUR4376; assessed through course-related exam/assignment/grade and final paper/project/presentation; rubric); 3-familiarity with how to generate geo-spatial products (SUR4940C, SUR4376; assessed through final paper/project/presentation; rubric).

Certificate

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About this Certificate

- **College:** Agricultural and Life Sciences
- **Credits:** 9, with minimum grades of C
- **Contact:** sasager@ufl.edu; 352.846.0846
- Related Geomatics Programs

Students must have a high-school diploma or the equivalent, and completed SUR3103C *Geomatics* with a minimum grade of C. Students can be admitted either as certificate-seeking, or as existing bachelors degree-seeking.

Required Courses

- SUR 4501C Foundations in UAS Mapping, 3 credit
- SUR 4940C Practicum in UAS Mapping, 3 credit
- SUR 4376 Geospatial Applications of UASs, 3 credit

Related Geomatics Programs

- Bachelor of Science in Geomatics