Program Change Request

Date Submitted: 11/27/18 2:10 pm

Viewing: **SC-CERG-GI : Geospatial Intelligence Graduate Certificate**

Last approved: 02/15/18 10:14 am

Last edit: 11/27/18 2:09 pm

Changes proposed by: dpfoser

Catalog Pages Using this Program	Geospatial Intelligence Graduate Certificate

Are you completing this form on someone else's behalf?	No
Effective Catalog:	2019-2020
Program Level:	Graduate
Program Type:	Certificate
Degree Type:	Graduate Certificate
Title:	Geospatial Intelligence Graduate Certificate
Banner Title:	**Geointelligence Certificate**
Registrar/OAPI Use Only – SCHEV Status	Approved
Registrar's Office Use Only – Program Start Term	
Registrar/OAPI Use Only – SCHEV Letter	
Concentration(s):	
Registrar/IRR Use Only – Concentration CIP Code	
College/School:	College of Science
Department / Academic Unit:	Geography & Geoinformation Science
Jointly Owned Program?	No
Justification	Adding GGS681 to electives.

In Workflow

1. **Registrar-Programs:Workflow Review**
2. **GGS Chair**
3. **SC Curriculum Committee**
4. SC Associate Dean
5. SC CAT Editor
6. Assoc Provost-Graduate
7. Registrar-Programs

Approval Path

1. 11/27/18 3:55 pm Tory Sarro (vsarro): Approved for Registrar-Programs:Workflow Review
2. 11/29/18 7:16 pm Dieter Pfoser (dpfoser): Approved for GGS Chair

History

1. Nov 8, 2017 by clmig-jwehrheim
2. Feb 15, 2018 by Rebekah Zacharias (rzachari)

Catalog Published Information

Total Credits Required:	Total credits: 18
Registrar's Office Use Only - Program Code:	SC-CERG-GI
Registrar/IRR Use Only – Program CIP Code	
Admission Requirements:	

Admissions

University-wide admissions policies can be found in the Graduate Admissions Policies section of this catalog.

Applicants to this graduate certificate program should hold a BA or BS degree in a discipline related to the certificate's theme from a regionally-accredited university with a minimum GPA of 3.00. To apply, prospective students should complete the George Mason University Admissions Application. In addition, applicants to this certificate

program must submit a current résumé, and GRE scores. Letters of recommendation are not required but will considerably strengthen an application, if available. TOEFL scores are required of all international applicants.

Applicants should have undergraduate backgrounds that include courses in differential and integral calculus, and they should possess working knowledge of a computer programming language. Depending on the background of the individual student, the coordinator may recommend remedial or preparatory courses tailored to the student's needs.

Program-Specific Policies:

Policies

For policies governing all graduate programs, see AP.6 Graduate Policies.

Premium Tuition Rate

This professional certificate program charges students at a differential (premium) tuition rate. This rate applies to all students who enroll in this certificate program, regardless of in-state or out-of-state status. The differential tuition will be used to fund continuing improvements in the departmental computational facilities used to support the certificate program.

Transfer of Credit

Students may transfer no more than 3 credits into the certificate program with the approval of the academic director.

Degree Requirements:

This certificate may be pursued on a full-or part-time basis.

Students should refer to the Admissions & Policies tab for specific policies related to this program.

Core Courses

The mandatory core courses reflect the three key science emphases of this program: geospatial image analysis, spatial analysis, and information technology:

Course List		
Code	Title	Credits
GGS 553	Geographic Information Systems	3
GGS 680	Earth Image Processing	3
GGS 684	Selected Topics in Geospatial Intelligence	3
GGS 685	Capstone Course in Geoinformatics	3
Select one from the following:		3
GGS 650	Introduction to GIS Algorithms and Programming	
GGS 664	Spatial Data Structures	
GGS 692	Web-based Geographic Information Systems	
Total Credits		15

Elective

Course List		
Code	Title	Credits
Select one additional elective course from the following:		3
GGS 563	Advanced Geographic Information Systems	
GGS 579	Remote Sensing	
GGS 631	Spatial Agent-Based Models of Human-Environment Interactions	
GGS 650	Introduction to GIS Algorithms and Programming	
GGS 658	Terrain Mapping	
GGS 664	Spatial Data Structures	
GGS 671	Algorithms and Modeling in GIS	
GGS 675	Location Science	
GGS 681	**Social Media Analysis**	
GGS 692	Web-based Geographic Information Systems	
GGS 740	Hyperspectral Imaging Systems	
GGS 772	Cloud Geographic Information Systems	
GGS 787	Scientific Data Mining for Geoinformatics	
Total Credits		3

Retroactive Requirements Updates:

Plan of Study:

Additional Program Information

This information is required by the Office of Accreditation and Program Integrity.

Courses offered via distance (if applicable):

Indicate whether students are able to pursue on a: Both Full and Part-time basis

What is the primary delivery format for the program?   Both Face-to-Face and Distance

Does any portion of this program occur off-campus?

No

Are you working with a vendor / other collaborators to offer your program?

No

Related Departments

Could this program prepare students for any type of professional licensure, in Virginia or elsewhere?

No

Are you adding or removing a licensure component?

No

Additional SCHEV & SACSCOC Information

Are you changing the total number of credits required for this program?

Are you changing the delivery format in any way (e.g adding an online option)?

Are you adding/removing a licensure option which was approved by SCHEV?

Will any portion of this program be offered at an off-campus location?

Are you adding significant new content areas to the program?

Will this program change affect any specialized accreditation?

Green Leaf Program Designation

Is this a Green Leaf program?   No

Does this program cover material which crosses into another department?

No

Additional Attachments

Reviewer Comments

Additional Comments

Is this course required of all students in this degree program?

%wi_required.eschtml%

Key: 209