# **Program Change Request**

Date Submitted: 02/23/24 4:18 pm

# Viewing: SC-CERG-GI : Geospatial Intelligence

# **Graduate Certificate**

Last approved: 05/08/23 11:16 am

### Last edit: 03/08/24 4:17 pm

Changes proposed by: jbazaz

Catalog Pages Using this Program <u>Geospatial Intelligence Graduate Certificate</u>

Are you completing this form on someone else's behalf?		
No		
2024-2025		
Graduate		
Certificate		
Graduate Certificate		
Title: Geospatial Intelligence Graduate Certificate		
Geointelligence Certificate		
Approved		

## In Workflow

- 1. GGS Chair
- 2. SC Curriculum Committee
- 3. SC Assistant Dean
- 4. Assoc Provost-Graduate
- 5. Registrar-Programs

## **Approval Path**

1. 03/15/24 11:33 am Nathan Burtch (nburtch): Approved for GGS Chair

## History

- 1. Nov 8, 2017 by clmig-jwehrheim
- 2. Feb 15, 2018 by rzachari
- 3. Feb 8, 2019 by Dieter Pfoser (dpfoser)
- 4. Feb 23, 2021 by jriemen
- 5. Jan 29, 2022 by Nathan Burtch (nburtch)
- 6. May 8, 2023 by Tory Sarro (vsarro)

3/15/24, 12:25 PM	SC-CERG-GI: Geospatial Intelligence Graduate Certificate		
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 What: Referring applicants to central admissions language and removing extraneous wording. Why: To make the program more adaptable to changes in university policies.			
What: Adding new c	courses to electives		
Why: These two new courses are applicable as electives in this certificate			

## **Catalog Published Information**

Total CreditsTotal credits: 18Required:

Registrar's Office Use Only - Program Code: SC-CERG-GI

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

3/

# Admissions

University-wide admissions policies can be found in the <u>Graduate Admissions Policies</u> section of this catalog. <u>International students and students having earned international degrees should also refer to Admission of</u> <u>International Students for additional requirements.</u>

# **Eligibility**

Applicants to this graduate certificate program should hold a BA or BS degree in a discipline related to the certificate's theme from an institution of higher education accredited by a Mason-recognized U.S. institutional accrediting agency or international equivalent. Applicants are expected to have undergraduate backgrounds that include courses in differential and integral calculus, and they should possess working knowledge of a computer

programming language. Depending <u>upon</u> on the background of the individual student, the coordinator may recommend remedial or preparatory courses tailored to the student's needs.

# Applicants to this certificate program must submit a currentrésumé.GRE scores and letters of recommendation are not required but will considerably strengthen an application, if available. <u>Application</u> <u>Requirements</u>

To <u>apply for this certificate</u>, <del>apply,</del> prospective students should <u>submit</u> <del>complete</del> the <u>George Mason University</u> <u>Admissions Application and its required supplemental documentation</u>. <u>Application</u>. <u>GRE scores and letters of recommendation are not required but will considerably strengthen an application, if</u> <u>available</u>.

Program-Specific Policies:

Policies

For policies governing all graduate <u>certificates</u>, programs, see <u>AP.6 Graduate Policies</u>.

# **Transferring Previous Graduate Transfer of Credit into this Certificate**

<u>Students may transfer no more than 3 credits into this</u> into the <u>certificate</u> program with the approval of the academic <u>director.</u>

director.

# **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 academicdirector.

#### **Degree Requirements:**

This certificate may be pursued on a full-or part-time basis. Students should refer to the <u>Admissions & Policies</u> tab for specific policies related to this <u>certificate</u>. <del>program.</del>

## **Core Courses**

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

GGS 553 Geographic Information Systems 3

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3

3

<u>GGS 680</u>	Earth Image Processing	3	
<u>GGS 684</u>	Selected Topics in Geospatial Intelligence	3	
<u>GGS 685</u>	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**

Select one additional elective course from the following: <u>GGS 563</u>Advanced Geographic Information Systems <u>GGS 679</u>Remote Sensing <u>GGS 631</u>Spatial Agent-Based Models of Human-Environment Interactions <u>GGS 632Spatial Modeling for Public Health</u> <u>GGS 650</u>Introduction to GIS Algorithms and Programming <u>GGS 658</u>Terrain Mapping <u>GGS 664</u>Spatial Data Structures <u>GGS 675</u>Location Science <u>GGS 681</u>Social Media Analysis <u>GGS 692</u>Web-based Geographic Information Systems <u>GGS 780</u>Eventific Data Mining for Geoinformatics <u>GGS 788Deep Learning for Geoinformation</u> Total Credits

Retroactive Requirements Updates:

Plan of Study:

**Program Outcomes** 

### **Additional Program Information**

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

Courses offered via distance (if applicable):

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

3/15/24, 12:25 PM	SC-CERG-GI: Geospatial Intelligence Graduate Certificate
What is the primary delivery format for the program?	Both Face-to-Face and Distance
Does any portion of t	his program occur off-campus?
	No
Are you working with	a vendor / other collaborators to offer your program?
	No
Related Departments	
Could this program pr Virginia or elsewhere	repare students for any type of professional licensure, in ?
	No
Are you adding or ren	noving a licensure component?
	No

### Additional SCHEV & SACSCOC Information

Is this change a simple retitling of an existing program, with no other changes, to any existing program content, curriculum requirements, etc?

#### No

Does this change represent a repackaging of content in an existing approved degree/certificate program at the same instructional level (i.e., baccalaureate, master's, or doctoral)?

#### <u>No</u>

Percentage of total credits containing new course content. ("New course content" is defined by SACSCOC as content that is not currently included in an existing approved degree/certificate program at the same instructiona level. Do not exclude gen ed credits in calculations for undergraduate programs.)

0%-24%

Does this change include the addition of a distance education or face-to-face method of delivery for this program

#### No

Does this change include the addition of a course/credit-based competency-based education delivery option?

#### <u>No</u>

Will any additional equipment/facilities be needed?

#### No

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Will any additional faculty be required?

No

Will any additional financial resources be needed?

<u>No</u>

Additional library/learning resources needed?

No

OAPI Use Only – Determination of SACSCOC Impact

**Comments or Notes** 

### **Green Leaf Program Designation**

Is this a Green Leaf No program?

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