Program Change Request

Date Submitted: 11/02/21 2:12 pm

Viewing: SC-CERG-GISC : Geographic Information

Science Graduate Certificate

Last approved: 12/21/20 11:58 am

Last edit: 11/02/21 2:12 pm

Changes proposed by: nburtch

Catalog Pages Using this Program <u>Geographic Information Science Graduate Certificate</u>

Rationale for

Are you completing this form on someone else's behalf?

No

Effective Catalog: 2022-2023

Program Level: Graduate

Program Type: Certificate

Degree Type: Graduate Certificate

Title:

Geographic Information Science Graduate Certificate

GIS Certificate

Banner Title:

Is this a retitling of an existing

Existing Program

Registrar/OAPI Use Approved Only – SCHEV Status

Registrar's Office Use Only – Program Start Term

In Workflow

1. GGS Chair

2. SC Curriculum Committee

- 3. SC Associate Dean
- 4. SC CAT Editor
- 5. Assoc Provost-Graduate
- 6. Registrar-Programs

Approval Path

 1. 11/04/21 12:14 pm Nathan Burtch (nburtch): Approved for GGS Chair

History

- 1. Nov 8, 2017 by clmig-jwehrheim
- 2. Mar 6, 2020 by pxiong
- 3. Dec 21, 2020 by Timothy Leslie (tleslie)

Registrar/OAPI Use Only – SCHEV Letter	
Registrar/OAPI Use Only – SACSCOC Status	
Concentration(s):	
Registrar/IRR Use Only – Concentration CIP Code	
College/School:	College of Science
Department / Academic Unit:	Geography & Geoinformation Science
Jointly Owned Program?	No
Participating	
Participating	
Justification What: Removing lar policies	nguage of admissions requirements that is redundant to University-wide

Why: This allows the program to remain in step with the University policies even if those are changed at some point. The redundant language is unnecessary, and this section should be reserved for additional application materials wanted by the department.

Catalog Published Information

Total CreditsTotal credits: 15Required:

Registrar's Office Use Only - Program Code:

SC-CERG-GISC

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

Admissions

University-wide admissions policies can be found in the <u>Graduate Admissions Policies</u> section of this catalog. <u>To apply for this program, please complete the George Mason University Admissions Application.Applicants to this</u> <u>certificate program must submit a currentrésumé.GRE scores and letters of recommendation are not required but</u> <u>will strengthen an application, ifavailable.TOEFL scores are required of all internationalapplicants.</u>All applicants should have a working knowledge of, or prior education or training in, computer technology. Knowledge of GIS, remote sensing technology, and cartography are preferred. Students from any discipline are welcome to apply.

Applicants to this certificate program must submit a current résumé. GRE scores and letters of recommendation are not required but will strengthen an application, if available.

To apply for this program, please complete the George Mason University Admissions Application.

Program-Specific Policies:

Policies

For policies governing all graduate certificates, see AP.6.8 Requirements for Graduate Certificates

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.

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 program.

Core Courses

<u>GGS 550</u>	Geospatial Science Fundamentals	3
<u>GGS 553</u>	Geographic Information Systems	3
Select 3 credits from the following:		3
<u>GGS 563</u>	Advanced Geographic Information Systems	
<u>GGS 650</u>	Introduction to GIS Algorithms and Programming	
<u>GGS 653</u>	GIS Analysis and Application	
<u>GGS 692</u>	Web-based Geographic Information Systems	
Total Credits		9

Electives

Select an additional 6 credits from the following:

<u>GGS 505</u>	Transportation Geography
<u>GGS 531</u>	Land-Use Modeling Techniques and Applications

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<u>GGS 551</u>	Cartographic Design
<u>GGS 560</u>	Quantitative Methods
<u>GGS 563</u>	Advanced Geographic Information Systems
<u>GGS 579</u>	Remote Sensing
<u>GGS 605</u>	Systematic Applications of GIS
<u>GGS 631</u>	Spatial Agent-Based Models of Human-Environment Interactions
<u>GGS 650</u>	Introduction to GIS Algorithms and Programming
<u>GGS 653</u>	GIS Analysis and Application
<u>GGS 655</u>	Geovisualization
<u>GGS 658</u>	Terrain Mapping
<u>GGS 664</u>	Spatial Data Structures
<u>GGS 671</u>	Algorithms and Modeling in GIS

- GGS 675 Location Science
- GGS 692 Web-based Geographic Information Systems
- <u>GGS 772</u> Cloud Geographic Information Systems
- GGS 773 Interoperability of Geographic Information Systems
- GGS 787 Scientific Data Mining for Geoinformatics

Total Credits

Retroactive Requirements Updates:

Plan of Study:

Honors Information:

Accelerated Description/Dual Degree Description: 6

INTO-Mason Requirements:

College Requirements & Policies:

Department / Academic Unit Requirements & Policies:

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:	

What is the primary delivery format for the program?	Face-to-Face Only	
Does any portion of t	this program occur off-campus?	
	No	
Off-campus details: Are you working with	h a vendor / other collaborators to offer your program?	
	No	
Please explain: Related Departments		
Could this program p Virginia or elsewhere	prepare students for any type of professional licensure, in ?	
	No	
Please explain:		
Are you adding or re	moving a licensure component?	
	No	
Please explain:		
Additional SCHEV & SACSCOC Information		
Are you changing the total number of credits required for this program?		

No

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

No

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

No

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

No

What off-campus location(s)? List all

What percentage of credits toward this program are offered at the off-campus loca

Will this program change affect any specialized accreditation?

No

Is the content of the new program closely related to that of an existing approved program?

No

Which existing approved program(s)?

Is this new program considered to be "advancing the degree level of a currently approved program" (i.e. existing content is at lower degree level, new content is at the higher degree level)?

No

Which existing approved program(s)?

Is this new program considered to be "lowering the degree level of a currently approved program" (i.e. existing content is at higher degree level, new content is at the lower degree level)?

No

Which existing approved program(s)?

Does this change represent a repackaging of content in an existing approved degree/certificate program?

No

Which existing approved program(s)?

Percentage of total credits containing new course content, excluding gen ed courses for undergraduate program: ("New content" means content that is not currently included in an existing approved degree/certificate program.) Please choose a percentage (i.e. 0%-100%)

less than 25%

Are the total credits for the program increasing or decreasing by more than 3 credits?

No

Will any additional equipment/facilites be needed?

No

Description of institutional impact:

Will any additional faculty be required?

No

Description of institutional impact:

Will any additional financial resources be needed?

No

Description of institutional impact:

Will any additional library/learning resources needed?

No

Description of institutional impact:

OAPI Use Only – Determination of SACSCOC Impact

Comments or Notes

Green Leaf Program Designation

Is this a Green Leaf No program?

Green Leaf

Sustainability-focused academic programs require at least one green leaf course. Either that course is itself sustainability-focused or else the program requires a set of sustainability-related courses with aggregated

Relationship to Relationship to

List sustainabilityfocused courses currently required

Sustainability-related academic programs either require at least one sustainability-related

- -

. . .

List sustainabilityrelated courses currently required

Does this program cover material which crosses into another department?

No

12/3/21, 1:56 PM

Impacted .

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Additional Attachments

SCHEV Proposal **Executive Summary**

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Reviewer Comments

Additional Comments

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

%wi_required.eschtml%

Attached -.

Key: 208