Program Change Request

Date Submitted: 02/23/24 4:17 pm

Viewing: SC-CERG-GISC: Geographic Information

Science Graduate Certificate

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

Last edit: 03/08/24 4:21 pm

Changes proposed by: jbazaz

Catalog Pages
Using this Program

Geographic Information Science Graduate Certificate

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

No

Effective Catalog: 2024-2025

Program Level: Graduate

Program Type: Certificate

Degree Type: Graduate Certificate

Title:

Geographic Information Science Graduate Certificate

Banner Title: GIS Certificate

Registrar/OAPI Use Approved

Only – SCHEV

Status

Registrar's Office

Use Only -

Program Start Term

Registrar/OAPI Use

Only - SCHEV

Letter

Registrar/OAPI Use

Only – SACSCOC

Status

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. Mar 6, 2020 by pxiong
- 3. Dec 21, 2020 by Timothy Leslie (tleslie)
- 4. Jan 29, 2022 by Nathan Burtch (nburtch)
- 5. May 8, 2023 by Tory Sarro (vsarro)

Concentration(s):

Registrar/IRR Use

Only -

Concentration CIP

Code

College/School: College of Science

Department /

Geography & Geoinformation Science

Academic Unit:

Jointly Owned

Nο

Program?

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: Adds new courses to electives

Why: These newly proposed courses fit as applicable electives in this certificate.

Catalog Published Information

Total Credits

Total credits: 15

Required:

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>International students and students having earned international degrees should also refer to Admission of International Students for additional requirements.</u>

Eligibility

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.

Application Requirements

To apply for this certificate, prospective students should submit the George Mason University Admissions Application and its required supplemental documentation.

Applicants to this certificate program must submit a currentrésumé. 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 AP.6.8 Requirements for Graduate Policies. Certificates

Transferring Previous Graduate Credit into this Certificate

<u>Previously earned and relevant graduate credits may be eligible for transfer into this certificate; details can be found in the Credit by Exam or Transfer section of this catalog.</u>

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 Admissions & Policies tab for specific policies related to this certificate, program.

Core Courses

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

Electives

Select an additional 6 credits from the following:

GGS 505 Transportation Geography

GGS 531Land-Use Modeling Techniques and Applications

6

GGS 551Cartographic Design

GGS 560 Quantitative Methods

GGS 563 Advanced Geographic Information Systems

GGS 579Remote Sensing

GGS 631 Spatial Agent-Based Models of Human-Environment Interactions

GGS 632Spatial Modeling for Public Health

GGS 650 Introduction to GIS Algorithms and Programming

GGS 653GIS Analysis and Application

GGS 655 Geovisualization

GGS 658Terrain Mapping

GGS 664 Spatial Data Structures

GGS 675Location Science

GGS 692Web-based Geographic Information Systems

GGS 773Interoperability of Geographic Information Systems

GGS 787Scientific Data Mining for Geoinformatics

GGS 788Deep Learning for Geoinformation

Total Credits 6

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 students are able

Both Full and Part-time basis

to pursue on a:

What is the Fa

Face-to-Face Only

primary delivery format for the program?

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

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

Nο

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)?

No

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?

No

Will any additional equipment/facilities be needed?

No

Will any additional faculty be required?

No

Will any additional financial resources be needed?

No

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: 208