

Program Change Request

Date Submitted: 11/27/18 2:07 pm

Viewing: **SC-MS-GEOI : Geoinformatics and Geospatial Intelligence, MS**

Last approved: 11/09/17 10:03 am

Last edit: 11/27/18 2:16 pm

Changes proposed by: dpfoser

Catalog Pages [Geoinformatics and Geospatial Intelligence, MS](#)
Using this Program

<p>Are you completing this form on someone else's behalf? No</p>		<p>In Workflow</p> <ol style="list-style-type: none"> 1. GGS Chair 2. SC Curriculum Committee 3. SC Associate Dean 4. SC CAT Editor 5. Assoc Provost-Graduate 6. Registrar-Programs
<p>Effective Catalog: 2019-2020</p> <p>Program Level: Graduate</p> <p>Program Type: Master's</p> <p>Degree Type: Master of Science</p> <p>Title: Geoinformatics and Geospatial Intelligence, MS</p> <p>Banner Title: Geoinformatics, MS</p> <p>Registrar/OAPI Use Only – SCHEV Status Approved</p> <p>Registrar's Office Use Only – Program Start Term</p> <p>Registrar/OAPI Use Only – SCHEV Letter</p> <p>Concentration(s):</p> <p>Registrar/IRR Use Only – Concentration CIP Code</p> <p>College/School: College of Science</p> <p>Department / Academic Unit: Geography & Geoinformation Science</p> <p>Jointly Owned Program? No</p> <p>Justification Adding GGS681 to electives. Adding GGS550 to electives.</p>		
<p>Total Credits Required: Total credits: 33</p> <p>Registrar's Office Use Only - Program Code: SC-MS-GEOI</p> <p>Registrar/IRR Use Only – Program CIP Code</p> <p>Admission Requirements:</p>		<p>History</p> <ol style="list-style-type: none"> 1. Nov 9, 2017 by clmig-jwehrheim

Admissions

University-wide admissions policies can be found in [Graduate Admissions Policies](#).

To apply for this program, please complete the [George Mason University Admissions Application](#).

Eligibility and Application Requirements

Applicants for this master's should hold a BA or BS degree in a discipline related to the program's theme from a regionally accredited university, with a minimum GPA of 3.00, including courses in differential and integral calculus. A working knowledge of a computer programming language is a plus. When the background of an individual student does not meet the program's requirements, remedial or preparatory courses tailored to student's needs may be recommended. To apply, prospective students should complete the [George Mason University Admissions Application](#). Official transcripts from each college and graduate institution attended, a current résumé, and a goals statement will be required.

Applicants will also need three letters of recommendation and an official report of scores obtained on the GRE-GEN. The GRE requirement for admission may be waived if the student holds a master's degree from a regionally accredited US institution. TOEFL scores are required of all international applicants.

Program-Specific Policies:

Policies

For policies governing all graduate programs, see [AP.6 Graduate Policies](#).

Secondary Program Options

Students enrolled in this master's program have the option of adding a secondary graduate certificate program. Depending upon the secondary program chosen, many courses may be applicable to both the certificate and the master's. Before adding a secondary program, students are advised to carefully review [AP.6.8 Requirements for Graduate Certificates](#) and [AP.6.9 Requirements for Master's Degrees](#). Faculty advisors should be contacted for further guidance and for graduate certificate program suggestions.

Degree Requirements:

Students should refer to the [Admissions & Policies](#) tab for specific policies related to this program.

Core Courses

Code	Course List Title	Credits
GGS 550	Geospatial Science Fundamentals	3
GGS 553	Geographic Information Systems	3
GGS 664	Spatial Data Structures	3
GGS 684	Selected Topics in Geospatial Intelligence	3
GGS 685	Capstone Course in Geoinformatics	3
GGS 680	Earth Image Processing	3
GGS 787	Scientific Data Mining for Geoinformatics	3
Total Credits		21

Thesis

Code	Course List Title	Credits
GGS 799	Thesis	3
Total Credits		3

Electives

Code	Course List Title	Credits
Select three courses from the groups below (course selections must also be approved by the program coordinator), with no more than two from a single group (i.e. courses are taken from at least two groups):		
Image Analysis:		
GGS 562	Photogrammetry	
GGS 579	Remote Sensing	
GGS 740	Hyperspectral Imaging Systems	
GGS 760	Advanced Topics in Remote Sensing	
GGS 840	Hyperspectral Imaging Applications	
Geographic Information Science:		
GGS 550	Geospatial Science Fundamentals	
GGS 563	Advanced Geographic Information Systems	
GGS 653	Geographic Information Analysis	
GGS 675	Location Science	
GGS 772	Cloud Geographic Information Systems	
GGS 791	Advanced Spatial Statistics	
Computational Geoinformatics:		
GGS 650	Introduction to GIS Algorithms and Programming	

Code	Title	Credits
GGS 671	Algorithms and Modeling in GIS	
GGS 681	Social Media Analysis	
GGS 692	Web-based Geographic Information Systems	
GGS 754	Earth Science Data and Advanced Data Analysis	
GGS 773	Interoperability of Geographic Information Systems	
Total Credits		9

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):

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
SCHEV Proposal

**Executive
Summary**

**Reviewer
Comments**

**Additional
Comments**

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

%wi_required.eshtml%

Key: 212