

GEOSPATIAL INTELLIGENCE GRADUATE CERTIFICATE

Banner Code: SC-CERG-GI

Academic Advising

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Website: <https://cos.gmu.edu/ggs/academic-programs/graduate-certificate-in-geospatial-intelligence/>

This graduate certificate is for persons employed in geospatial intelligence applications (i.e., federal agency and/ or corporate or association personnel) or those interested in entering this field. Our program offers fundamental knowledge on geospatial intelligence and the ability to apply this knowledge to a diverse range of constantly evolving geospatial intelligence situations. This graduate certificate has been accredited by the United States Geospatial Intelligence Foundation.

The majority of courses required for this certificate are also available online. For more information visit Mason Online (<http://masononline.gmu.edu>).

The graduate certificate in geospatial intelligence may be pursued on a part-time or full-time basis, and qualifies for Title IV Federal Financial Aid. For more information about program graduation rates, the median debt of students who completed the program, and other important information, please visit our disclosure information page (https://irr2.gmu.edu/gedt/Geospatial_Intelligence/Gedt.html).

Admissions & Policies

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 (<https://www2.gmu.edu/admissions-aid/apply-now>). 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.

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.

Requirements

Certificate Requirements

Total credits: 18

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:

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

Total Credits 15

Elective

Code	Title	Credits
Select one additional elective course from the following:		3
GGG 563	Advanced Geographic Information Systems	
GGG 579	Remote Sensing	
GGG 631	Spatial Agent-Based Models of Human-Environment Interactions	
GGG 650	Introduction to GIS Algorithms and Programming	
GGG 658	Terrain Mapping	
GGG 664	Spatial Data Structures	
GGG 671	Algorithms and Modeling in GIS	
GGG 675	Location Science	

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GGIS 692	Web-based Geographic Information Systems
GGIS 740	Hyperspectral Imaging Systems
GGIS 772	Cloud Geographic Information Systems
GGIS 787	Scientific Data Mining for Geoinformatics
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Total Credits	3