

REMOTE SENSING AND IMAGE PROCESSING GRADUATE CERTIFICATE

Banner Code: SC-CERG-RSIP

Graduate Advising

2400 Exploratory Hall
Fairfax Campus

Phone: 703-993-3615
Email: ggs@gmu.edu
Website: <https://science.gmu.edu/academics/departments-units/geography-geoinformation-science/remote-sensing-and-image-processing>

This certificate program focuses on the skills needed to take advantage of the enormous increase in the availability and use of remotely sensed data related to the Earth. Ideal candidates for this certificate are those who have a background in Earth and environmental sciences and are working in or planning to enter into the field of remote sensing, Earth observing, or image processing.

The Remote Sensing and Image Processing Graduate Certificate may be pursued on a part-time or full-time basis.

Admissions & Policies

Admissions

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

Eligibility

This certificate focuses on the skills needed to take advantage of the enormous increase in the availability and use of remotely sensed data related to the Earth. Ideal candidates for this certificate are those who have a background in Earth and environmental sciences and are working in or planning to enter into the field of remote sensing, Earth observing, or image processing.

Application Requirements

To apply for this certificate, prospective students should submit the George Mason University Admissions Application (<https://www2.gmu.edu/admissions-aid/apply-now/>) and its required supplemental documentation.

GRE scores and letters of recommendation are not required, but will strengthen an application if available.

Policies

For policies governing all graduate certificates, see AP.6 Graduate Policies (<https://catalog.gmu.edu/policies/academic/graduate-policies/>).

Transferring Previous Graduate Credit into this Certificate

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 (<https://catalog.gmu.edu/policies/academic/graduate-policies/>) section of this catalog.

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.

Requirements

Certificate Requirements

Total credits: 15

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.

Core Courses

Code	Title	Credits
GGs 579	Remote Sensing	3
GGs 680	Earth Image Processing	3
GGs 740	Hyperspectral Imaging Systems	3
Total Credits		9

Electives

Code	Title	Credits
Select two electives from the following:		6
GGs 622	Drone Remote Sensing	
GGs 626	Physical Fundamentals of Remote Sensing	
GGs 629	Remote Sensing of the Environment and Earth System	
GGs 754	Earth Science Data and Advanced Data Analysis	
GGs 760	Advanced Topics in Remote Sensing	
GGs 777	Remote Sensing Natural Hazards	
GGs 787	Scientific Data Mining for Geoinformatics	
GGs 840	Hyperspectral Imaging Applications	
Total Credits		6