

# ENVIRONMENTAL GIS AND BIODIVERSITY CONSERVATION GRADUATE CERTIFICATE

**Banner Code:** SC-CERG-EGBC

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As biodiversity is the life support system of our planet, it is important to prepare students for careers that require knowledge of both ecology and public policy. This certificate focuses in the fields of conservation biology, land use policy, conservation planning, and modern tools and approaches used in GIS to prepare students to tackle complex environmental challenges in a changing world.

This certificate is suitable for traditional students as well as for student-professionals (such as environmental scientists, managers, practitioners in government, and experts in non-governmental organizations) who wish to acquire further knowledge to advance their careers.

This 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 section of this catalog.

To apply for this program, please complete the George Mason University Admissions Application (<https://www2.gmu.edu/admissions-aid/apply-now>).

Applicants for this certificate should hold a BA or BS in a related discipline from a regionally accredited institution.

### Policies

For policies governing all graduate programs, see AP.6 Graduate Policies.

## Requirements

### Degree Requirements

Total credits: 18

Refer to the Admissions & Policies for policies specific to this program.

### Core Courses

#### Geospatial Requirements

GGS 553	Geographic Information Systems	3
or GGS 692	Web-based Geographic Information Systems	

#### Remote Sensing Requirements

GGS 579	Remote Sensing	3
or GGS 680	Earth Image Processing	

#### Conservation Requirements

EVPP 518	Conservation Biology <sup>1</sup>	3
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#### Statistics Requirements

GGS 560	Quantitative Methods	3
or CONS 625	Statistics for Ecology and Conservation Biology	

Total Credits		12
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<sup>1</sup> This course may be substituted with advisor approval.

### Practice-oriented Conservation Coursework

Select 6 credits from the following: 6

CONS 620	Spatial Ecology, Geospatial Analysis Remote Sensing for Conservation
CONS 630	Species Monitoring Conservation
CONS 640	Adaptive Management for Conservation Success
or CONS 660	Effective Conservation Leadership
or CONS 665	Conservation Conflict Resolution
CONS 645	Estimating Animal Abundance and Occupancy
CONS 697	Special Topics in Conservation

Total Credits		6
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