

## Master of Science in Geospatial Analysis

This program was designed to address the demand for GIS-trained personnel in today's working world. Geospatial technologies are a high-growth area; a master's degree is not essential, but is a career boost.

### Features of the MSGA

- Designed for recent graduates with a background in GIS, and working professionals who want to advance their careers
- Classes are offered once-a-week in the evening, from 6:00-9:30 pm
- Classes are taught in-person on the Fredericksburg campus of UMW
- Maximum class size is 18 students, ensuring access to faculty and close working relationships
- Can be completed in 12 months while attending full-time (12 credits per semester, 6 in summer); most of our students attend part-time
- A 30-credit program, with six 4-credit courses and a 6-credit independent research project

### Required Core Courses (12 credits)

MSGA 510 – Spatial Thinking  
MSGA 540 – Modeling and Spatial Statistics  
MSGA 555 – Programming for GIS

Students who have completed an undergraduate GIS programming course should substitute MSGA 580 for MSGA 555. If MSGA 580 taken in the core, it cannot also count as an elective.

### Elective Courses –select 3 of the following (12 credits)

MSGA 520 – GeoDesign and Geovisualization  
MSGA 550 – Remote Sensing & Digital Imagery  
MSGA 570 – Geospatial Intelligence  
MSGA 571 – Special Topics in Geospatial Analysis  
MSGA 580 – Web GIS and Programming

### Capstone (6 credits)

MSGA 595 – Independent Research Project

**For More Information** please visit <https://cas.umw.edu/gis/msga/> or contact Dr. Jackie Gallagher, Department of Geography, UMW at [jgallagh@umw.edu](mailto:jgallagh@umw.edu) or 540-654-1493.

The University of Mary Washington is a public university located in Fredericksburg, VA, halfway between Washington, DC and Richmond, VA, near the **biggest GIS market** in the US.