

GEOSPATIAL ANALYSIS, MINOR

The minor in Geospatial Analysis provides students with a hands-on and theoretical understanding of the uses and applications of geospatial analysis. Geospatial analysis is the process of gathering, visualizing, and interpreting data that has a geographic or spatial component to identify patterns, relationships, and trends. The minor may be combined with any major at William & Mary. The minor can be declared after successful completion of the introductory course GIS 201 or its equivalent. A maximum of two courses may be counted towards a primary major and minor; some courses may be substituted with permission from the minor advisor. In addition to the 12 credits of core requirement, students choose 6 credits from Elective credits which expand concepts, knowledge and understanding and complement the core courses of the minor.

² the courses below may be repeated, but only two credits will count toward the minor.

³ no more than three credits from this elective section below may be counted toward the minor.

Required Credit Hours: 18

Code	Title	Hours
Required Introductory Course		
GIS 201	Introduction to Geographic Information Systems and Spatial Analysis	3
or CONS 210	Introduction to Conservation GIS	
Required Intermediate and Advanced Courses		
GIS 405	Geovisualization & Cartographic Design	3
GIS 410	Introduction to Remotely Sensed Imagery and Analysis	3
GIS 420	Advanced GIS Analysis & Programming	3
Elective Courses		
Select six credits from the following: ¹		6
Disciplinary/Specialty Courses:		
BIOL 445	GIS for Biologists	
GIS 350	Spatial Analysis and Social Justice	
GIS 490	Topics: Geospatial Technologies	
GOVT 493	Advanced Topics in Govt	
GEOL 320	Earth Surface Processes	
Applied Research Methods & Teaching: ²		
CONS 493	Conservation GIS Research	
GIS 425	Mentored Geospatial Teaching	
GIS 480	Independent Research In Geospatial Technologies	
Complementary Skills Courses: ³		
BIOL 325	Introduction to Quantitative Biology	
BIOL 327	Intro to Biostatistics	
DATA 101	Reasoning with Generative AI	
DATA 303	Data Visualization	
DATA 341	App Time Series Analysis	
DATA 431	Spatial Data Discovery	
DATA 442	Neural Networks & Deep Learning	
DATA 444	Agent-Based Modeling	
ECON 407	Cross Section Econometrics	
Total Hours		18

¹ other classes as approved by the student's Geospatial Analysis faculty advisor