

URBAN INFORMATICS MINOR

Banner Code: UINF

Undergraduate Advising

2400 Exploratory Hall
Fairfax Campus

Phone: 703-993-1207
Email: ggs@gmu.edu
Website: <https://science.gmu.edu/academics/departments-units/geography-geoinformation-science/urban-informatics-minor>

With urban spaces becoming data-rich environments, the goal of this minor is to provide students with the ability to use large-scale data from a variety of sources to understand and address real-world challenges in the urban context. In combining courses that address spatial analysis and mapping, data science, and social sciences, this minor provides the background necessary to investigate data-driven problems in relation to urban scenarios. A capstone project will provide students with the opportunity to address a real-world issue through focused study and applied research under the direction of a faculty member and in collaboration with stakeholders.

Admissions & Policies

Policies

Eight credits of coursework must be unique to the minor. For policies governing all minors, see AP.5.3.4 Minors (<https://catalog.gmu.edu/policies/academic/undergraduate-policies/#ap-5-3-4>).

Students must complete all coursework with a minimum GPA of 2.00.

For policies governing all undergraduate programs, see AP.5 Undergraduate Policies (<https://catalog.gmu.edu/policies/academic/undergraduate-policies/>).

Requirements

Minor Requirements

Total credits: 18

Students should refer to the Admissions & Policies tab for specific policies related to this program.

Core Courses

Code	Title	Credits
CDS 303	Scientific Data Mining	3
GGG 306	Urban Geography	3
Total Credits		6

Electives

Code	Title	Credits
Select one course from each of the three groups below: 9		
Spatial Analysis and Mapping Group		
GGG 300	Quantitative Methods for Geographical Analysis	
GGG 311	Geographic Information Systems	
GGG 357	Urban Planning	
GGG 462	Web-based Geographic Information Systems	
GGG 463	RS: GIS Analysis and Application	
Data Science Group		
CDS 201	Introduction to Computational Social Science	
CDS 292	Introduction to Social Network Analysis (Mason Core) (https://catalog.gmu.edu/mason-core/)	
CDS 302	Scientific Data and Databases (Mason Core) (https://catalog.gmu.edu/mason-core/)	
Social Science and Policy Group		
ANTH 382	Urban Anthropology (Mason Core) (https://catalog.gmu.edu/mason-core/)	
GOVT 464	Issues in Public Policy and Administration (With specific title "Urban Economic Development in the Smart Growth Era")	
SOCI 332	The Urban World (Mason Core) (https://catalog.gmu.edu/mason-core/)	
Total Credits		9

Capstone

Code	Title	Credits
A capstone project will provide students with the opportunity to address a real-world issue through focused study and applied research under the direction of a faculty member and in collaboration with stakeholders.		
Select one capstone course: 3		
GGG 415	Seminar in Geographic Thought and Methodology (Mason Core) (https://catalog.gmu.edu/mason-core/)	
GGG 480	GGG Internship	
CDS 490	Directed Study and Research	
CDS 491	Internship	
Total Credits		3