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# **URBAN INFORMATICS MINOR**

Banner Code: UINF

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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 (http://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 (http://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
GGS 306	Urban Geography	3
Total Credits		6

#### **Electives**

Code	Title	Credits
Select one course from each of the three groups below:		9
Spatial Analysi	s and Mapping Group	
GGS 300	Quantitative Methods for Geographical Analysis	

GGS 311	Geographic Information Systems	
GGS 357	Urban Planning	
GGS 462	Web-based Geographic Information Systems	
GGS 463	RS: GIS Analysis and Application	
Data Science Gro	up	
CDS 201	Introduction to Computational Social Science	
CDS 292	Introduction to Social Network Analysis (Mason Core) (http://catalog.gmu.edu/ mason-core/)	
CDS 302	Scientific Data and Databases	
Social Science a	nd Policy Group	
ANTH 382	Urban Anthropology (Mason Core) (http:// 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) (http:// catalog.gmu.edu/mason-core/)	
Total Credits		9
Capstone		
Code	Title	Credits
to address a real applied research	ct will provide students with the opportunity world issue through focused study and under the direction of a faculty member and vith stakeholders.	
Select one capst	one course:	3
GGS 415	Seminar in Geographic Thought and Methodology	
GGS 480	GGS Internship	
CDS 490	Directed Study and Research	
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CDS 491

**Total Credits** 

Internship