

# 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.

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

For policies governing all undergraduate programs, see AP.5 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	Introduction to Geographic Information Systems	

GGG 357	Urban Planning	
GGG 462	Web Mapping	
GGG 463	RS: Applied Geographic Information Systems	

##### Data Science Group

CDS 201	Introduction to Computational Social Science	
CDS 292	Introduction to Social Network Analysis	
CDS 302	Scientific Data and Databases	

##### Social Science and Policy Group

ANTH 382	Urban Anthropology (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)	

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 Geography	
GGG 480	GGG Internship	
CDS 490	Directed Study and Research	
CDS 491	Internship	

Total Credits 3