URBAN INFORMATICS MINOR

Banner Code: UINF

Nathan R. Burtch, Undergraduate Coordinator
2413 Exploratory Hall
Fairfax Campus
Phone: 703-993-1207
Email: ggs@gmu.edu
Website: ggs.gmu.edu

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDS 303</td>
<td>Scientific Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>GGS 306</td>
<td>Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select one course from each of the three groups below: 9

Spatial Analysis 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 Group

- 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 and 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>GGS 415</td>
<td>Seminar in Geographic Thought and Methodology</td>
<td>3</td>
</tr>
<tr>
<td>GGS 480</td>
<td>GGS Internship</td>
<td></td>
</tr>
<tr>
<td>CDS 490</td>
<td>Directed Study and Research</td>
<td></td>
</tr>
<tr>
<td>CDS 491</td>
<td>Internship</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 3