

# MINOR IN GEOGRAPHIC INFORMATION SCIENCE AND GEOGRAPHIC ANALYSIS

## Requirements Effective Spring 2021

Additional coursework may be required due to prerequisites.

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Code	Title	Credits
Required Lower Division		
GR 220	Mapping, Cartography, and Spatial Thinking	3
Required Upper Division		
GR 323/NR 323	Remote Sensing and Image Interpretation	3
GR 420	Spatial Analysis with GIS	4
GR 430	Land Change Science and Remote Sensing	3
GR 431	Land Change Science Lab	1
Required Upper Division (Quantitative - choose one)		3
ANTH 365	Quantifying Anthropology	
GR 315	Quantitative Geographical Methods	
Upper Division / Lower Division (Select a minimum of 4 credits)		4
CS 152	Python for STEM	
GR 305	Geography of Global Health	
GR 311	GIS for Social Scientists	
GR 495	Independent Study <sup>1</sup>	
HIST 475	Methods in Digital History	
NR 426	Programming for GIS I	
NR 427	Programming for GIS II	
<b>Program Total Credits:</b>		<b>21</b>

<sup>1</sup> Variable credit course which must have a geospatial component. The appropriateness for the Independent Study to count for the minor will be determined by the instructor leading the Independent Study and the Geography Program Director or Department Chair.