

To learn more
about GIS at
Buffalo State,
please visit the
Geography &
Planning
Department
website or the
GIS Tech Hub
website

gistechhub.buffalostate.edu

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We're on the web!
geography.buffalostate.edu

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BUFFALO STATE
The State University of New York

GEG 325 MAPS AND MAPMAKING USING GIS

3 credits

Prerequisites: None

Maps as essential form of communication. Geographic information systems (GIS) tools for creating digital and hardcopy maps. Spatial thinking, concepts, principals and methods of mapmaking; map development and display using technology.

Tuesday and Thursday, 9:25 AM-10:40 AM

Instructor: Mary Perrelli

GEG 418/518 REMOTE SENSING

3 credits

Prerequisites: GEG/PLN 325; or instructor permission.

Concepts of remote sensing and its applications. Principles and methods of electromagnetic radiation, aerial and space remote sensing. Basics of digital image processing, spatial data capture and interpretations from remote sensors.

Tuesday and Thursday, 10:50 AM-12:05 PM

Instructor: Tao Tang

GEG 428 ENVIRONMENTAL ASSESSMENT AND PLANNING APPLICATIONS IN GIS

3 credits

Prerequisite: GEG 425 or equivalent.

Advanced concepts of GIS with a focus on spatial analytical applications in GIS for environmental assessment and planning. GIS theories and software implementations are presented through lecture and hands-on practice to solve real world environmental and planning problems.

Tuesday and Thursday, 3:05-4:20 PM

Instructor: Tao Tang

GEG 429 ADVANCED TOPICS IN GIS

3 credits

Prerequisites: GEG 425 or equivalent course with permission of instructor.

Builds from the topics covered in GEG 425 Fundamentals of GIS, focusing more on digital representation of the human and physical environment, including location referencing from a human perspective, database design, data quality issues (how to identify and document errors), spatial statistical analysis using GIS, the fourth dimension (time) in GIS, and understanding spatial analysis algorithms and models. Introduces programming in a GIS environment.

Thursday, 4:30-7:15 PM

Instructor: Wende Mix