

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

GIS Courses at SUNY Buffalo State

Fall 2017

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 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 425 FUNDAMENTALS OF GIS

3 credits

Prerequisites: GEG/PLN 325.

Principles and methods of spatial data capture, automation, models and structures of spatial databases, spatial analysis, visualization, and map display in Geographic information systems (GIS) environment. Fundamentals of spatial analytical methods including spatial database query, location and geographic coordinate concepts, spatial geocoding, buffering, map overlay, and spatial modeling.

Tuesday and Thursday, 4:30 PM– 5:45 PM

Instructor: Tao Tang

GEG 485 INTERACTIVE AND WEB BASED MAPPING

3 credits

Prerequisite: GEG 425 or equivalent.

Different approaches to communicating with maps on the Internet. How to create Web-based mapping applications.

Monday: 4:30 PM – 7:15 PM

Instructor: Wende Mix