

DRONE PILOTING AND SPATIAL DATA ANALYTICS CERTIFICATE

This program is focused on unmanned vehicle piloting, aerial data acquisition, and spatial data analytics. Students will learn to pilot a drone to collect and analyze data such as LiDAR (Light Detecting and Ranging for Elevations), Multi-Spectral Data, in the Red Green and Blue spectrum (for true color), as well as near infrared range, and thermal range bands. These processes are used extensively in industry, utilities, crime scene investigations, and emergency management field operations. After completion of this program, students will be prepared to sit for the FAA Part 107 exam.

Course	Title	Credits
GIS 408	Drone Piloting and Mapping	3
GY 307	Geographic Information Systems (WI)	3
GY 401	Practicum in Geography	3
GY 406	Digital Image Analysis	3
Total Hours		12