EARTH AND ENVIRONMENTAL SCIENCES (GEO)

Successful completion of the course demonstrates your mastery of the competencies expected for an entry-level geospatial technician (GEO 2850) or entry-level geospatial analyst (GEO 4850).

STUDENT LEARNING OUTCOMES (SLOS)

By the end of the course, students are expected to:

- 1. Apply critical thinking skills in generating, analyzing, implementing, and evaluating solutions to geospatial problems.
- 2. Understand, apply, analyze, and evaluate project management steps and geospatial skills as part of managing and completing a comprehensive project.
- 3. Apply both professional and ethical behaviors in the course of performing job responsibilities.
- 4. Demonstrate ability to work collaboratively as a team member.
- 5.

Final Project Proposal and Implementation – Instructor (40% of grade) Final Project Report / e-portfolio (40% of grade) Peer Assessment: Final Project Report and Presentation (20%)

Upper Division Course Credit Requirements

This is a **dual-listed course** where lower division or upper division credit is earned with successful completion of the course, earning a grade of C or better. *Students enrolled in the upper division section of the course will have additional responsibilities and associated measurable CLOs that demonstrate a higher level of accomplishment* from the capstone experience.

Methods of Instruction: Instruction will take place at the workplace and individual meetings with faculty:

Learning Modules Discussion Hands-on Experience Collaborative Learning Peer-mentoring

COURSE REQUIREMENTS

SLO	UNITS	Description
1	UNIT 1: Problem Solving Experience in the Geospatial Field	Apply critical thinking skills to solve problems by generating, evaluating, and implementing geospatial solutions.
2	UNIT 2: Geospatial Project Components	
	Project Scope	Describe how strategic planning should influence projects undertaken by an organization.
	Project Management	Describe the difference between a project, program, and product. Describe the constraints of projects and the framework for project management.
	Time Management	Describe the use of workflow planning and the tracking of project tasks.
3	UNIT 3: Code of Ethics	Debrownstrated wild by GISCI and ASPRS organizations.

UNIT 5: Collaborative Work Experience