

WILLIAM RAINEY HARPER COLLEGE
BUSINESS AND SOCIAL SCIENCE DIVISION
GENERAL COURSE OUTLINE

GEG	153	Applied Geospatial Technologies	(2-2)	3
Course Prefix	Course Number	Course Title	(Lec-Lab)	Semester Hours

Course Description

Prerequisite: GEG 152 with a grade of C or better.

Consolidates the concepts and techniques acquired through prior coursework within the Geographic Information Systems (GIS) certificate. Students will analyze case studies, understand geospatial technology as a professional field, and apply geospatial technology methods and workflows in classroom projects.

Topical Outline

- I. Considerations for GIS and Geospatial Technology Professionals
 - A. code of ethics
 - B. legal and security issues
 - C. industry association
- II. GIS Project Workflows
 - A. Project conceptualization, planning, and workflow documentation
 - B. Data sourcing or creation
 - C. Application of geospatial technology methods and cartographic principles
 - D. Presentation of results (digital, written, and verbal)

Method of Presentation

- 1. Lecture
- 2. Other: a. Computer-based learning
 - b. Hands-on exercises

Student Outcomes (The student should)

- 1. solve geospatial problems or to answer geographic questions through the application of geospatial technology methods and cartographic principles.
- 2. document geospatial technology workflows, procedures, and metadata.
- 3. understand the professional and ethical behaviors expected of GIS professionals.
- 4. demonstrate communication skills that are required for teamwork and presentations in GIS project settings.

Methods of Evaluation

Grades are based on demonstrated proficiency in subject matter. Proficiency is determined from:

1. Completion of laboratory exercises
2. Passing exams
3. Completion of various homework assignments
4. Final project

Textbook & Instructional Materials

Required

ESRI, SpatialLABs Laboratory Collection, <https://www.esri.com/training/catalog/search/>
GeoTech Teaching Resources, <http://www.geotechcenter.org>

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