

# GIST 54A: SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS I

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2022
Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	This is an introductory level course in the applications of GIST, and assumes no prior knowledge of the discipline; not open to students with credit in GEOG 54A.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

## Student Learning Outcomes

- Discuss the diverse applications of Geographic Information Systems.
- Explain how Geospatial Technology can be used to solve a problem of a geographic nature

## Description

Seminar on the diverse applications of Geographic Information Systems (GIS). Weekly presentations by guest speakers.

## Course Objectives

The student will be able to:

1. discuss the diverse applications of Geographic Information Systems

## Course Content

1. Guest speakers will discuss the applications of GIS to some of the following professions:
  - a. Agriculture
  - b. Archaeology
  - c. Anthropology
  - d. Biology
  - e. Business
  - f. City government
  - g. Ecological modeling
  - h. Economics
  - i. Education
  - j. Emergency management
  - k. Epidemiology

- l. Facilities management
  - m. Forestry
  - n. Geography
  - o. Geology
  - p. Hydrological modeling
  - q. Land use management
  - r. Military
  - s. Real estate
  - t. Transportation
  - u. Travel
  - v. Urban planning
  - w. Utility management
  - x. Zoology
2. Individual GIS project
    - a. Project planning
    - b. Data acquisition and management
    - c. Implementing a project
    - d. Written report and oral presentation

## Lab Content

Not applicable.

## Special Facilities and/or Equipment

1. "Smart" classroom with computer, projector and internet access.
2. When taught via Foothill Global Access, ongoing access to computer with email software and hardware; email address.

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

- Application of concepts introduced in class in final discussion
- Written critiques of relevant articles in the discipline

## Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- Lecture presentations
- Classroom discussion
- Demonstrations
- Reading assignments

## Representative Text(s) and Other Materials

No textbook. Readings distributed based on guest speakers. Current events and articles published in peer reviewed academic journals.

## Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

1. Readings distributed based on guest speakers.
2. Current events and articles published in academic journals.

## **Discipline(s)**

Geography or Drafting/CADD or Environmental Technologies or Forestry/  
Natural Resources