

**GIST-118 GEOSPATIAL ANALYSIS**      4 CREDITS

**SYLLABUS**

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**CATALOG DESCRIPTION**

This course studies various analysis methods pertaining to maps and geospatial data including distance finding and measurement, position analysis, area and volume measurement, surface analysis, and spatial pattern analysis. Also studied are interpretations of the lithosphere, atmosphere and the human landscape.

Prerequisites: None

Semester Offered: Spring

***COMMON STUDENT LEARNING OUTCOMES***

*Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...*

**BROAD AND SPECIALIZED LEARNING**

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

**CRITICAL THINKING**

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

**CULTURAL AND CIVIC ENGAGEMENT**

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

**EFFECTIVE COMMUNICATION**

Students will exchange ideas and information with clarity in multiple contexts.

**INFORMATION LITERACY**

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

**INTEGRATING TECHNOLOGIES**

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

**COURSE LEARNING OUTCOMES**

*Upon successful completion of the course, the student will be able to...*

1. Understand the various methods and skills of determining distance.
2. Understand and use GIS and compasses to determine direction.
3. Understand position finding and navigation.

A copy of this approved syllabus is on file in the dean's office.  
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4. Understand GPS and mapping.
5. Understand and perform area and volume calculations.
6. Understand the theory and practice of geospatial distribution, patterns and clustering.
7. Interpret the lithosphere, atmosphere and biosphere.
8. Make interpretations about the human landscape.