

Geographic Information Systems (GIS) Certificate of Accomplishment - Active

Department: Earth Sciences

Approval: October 2018

Effective Semester: Fall 2019

Students will develop in-depth knowledge of the fundamental concepts and practice of Geographic Information Systems (GIS) and learn hands-on problem-solving skills doing real-world GIS application projects. Students will be able to apply this knowledge and hands-on skills to various fields including, but not limited to, planning, engineering, geography, criminology, real estate, biotech, public utilities, transportation, forestry, ecology, resource management, emergency response, business/marketing.

Learning Outcomes

Upon completion of this program, students will be able to:

- Apply GIS technology to evaluate real-world problems, and communicate the GIS project process and generate written and graphic medias at a professional level.
- Locate, assess, and retrieve spatial data and knowledge across the GIS technical community to design solutions for GIS projects.
- Distinguish from among the underlying theories of GIS technology (including projections and spatial databases) to effectively design appropriate solutions to project needs.

A minimum of two of the courses must be taken at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Geographic Information Systems (GIS)

Course	Units
Required courses:	
GEOG 110 - Introduction to GIS	3.00
GEOG 111 - GIS Analysis and Modeling	3.00
GEOG 112 - GIS Software Technology	3.00
Total:	9.00
Total:	9.00

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