



CURRICULUM GUIDE 2015-2016

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Certificate of Accomplishment in Geographic Information Systems (GIS)

Requirements for Certificate of Accomplishment:

- a) Complete satisfactorily the courses listed for the particular certificate.
- b) Complete at least 50% of the required units at Ohlone College.
- c) Maintain a 2.0 grade point average.

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

GIS is a computer-based database management system for capture, storage, retrieval, analysis, and display of spatial data. Students who complete this program will be better prepared to map data for decision-making in business, environmental protection, risk assessment, utility planning and management, emergency response, land use planning, transportation planning, delivery route planning, real estate, and crime prevention.

Student Learning Outcomes

1. Distinguish the characteristics and key principles of geography, specifically the subdivision of cartography.
2. Develop an understanding of uses, organization, and analysis of geographical data.
3. Select appropriate techniques and technology to analyze geographic problems.
4. Demonstrate technical skills in data management including data input, editing, query, analysis, and display.
5. Produce and arrange a GIS project using GIS technical skills.

GEOG-121	Introduction to Geographic Information Systems (GIS)	2
GEOG-122	Environmental GIS	2
GEOG-123	Geographic Information Systems (GIS) Projects	1
ANTH-102	Cultural Anthropology OR	3
ANTH-103	Introduction to Archaeology OR	(3)
CS-101	Introduction to Computers and Information Technology OR	(3)
ENVS-101	Natural Resource Management OR	(3)
ENVS-107	Food, Culture, and the Environment OR	(3)
ENVS-108	Introduction to the Environment OR	(3)
GEOG-101	Physical Geography OR	(4)
GEOG-102	Cultural Geography OR	(3)
GEOG-105	California Geography OR	(3)
GEOL-101	Introduction to Geology OR	(4)
RE-121	Real Estate Principles	(3)