



## CURRICULUM GUIDE 2017-2018

### 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)	3
Complete one course from the following courses:		3-4
ANTH-102	Cultural Anthropology	3
ANTH-103	Introduction to Archaeology	3
CS-101	Introduction to Computers and Information Technology	3
ENVS-105	Energy: The Environment, Humans, and Sustainability	3
ENVS-107	Food, Culture, and the Environment	3
ENVS-108	Introduction to the Environment	3
ENVS-109	Sustainable Urban Design and the Environment	3
ENVS-110	Climate Change: Science, The Environment, and Society	3
GEOG-101	Physical Geography	4
GEOG-102	Cultural Geography	3
GEOG-104	World Regional Geography	3
GEOG-106	Economic Geography: Resources and Society	3
GEOL-101	Introduction to Geology	4
RE-121	Real Estate Principles	<u>3</u>
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