

# GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE

## Division: Social Sciences

PROGRAM CODE: 1C07825N  
Financial Aid Eligible

Provide endorsed entry-level skills for the rapidly growing GIS field. Our certificate is the only general purpose GIS certificate approved by the California State Chancellor's office. To earn a certificate, complete the required courses as listed with a grade of C or better. At least 50% of all course work must be completed at Cypress College. Cypress College certificate is inclusive of tiers one through four in the U. S. Department of Labor's Geospatial Industry Competency Model of June 1, 2010. This certificate requires a total of 25-27 units.

Code	Title	Units
<b>Required Geographic Information System courses (12 units):</b>		
GEOG 230 C	Introduction to GIS	3
GEOG 231 C	GIS - Spatial Analysis	3
GEOG 232 C	GIS - Analysis and Modeling	3
GEOG 233 C	GIS - Advanced Internship	3
<b>Spatial Courses (3 units):</b>		<b>3</b>
<i>(Select ONE course from the following)</i>		
GEOG 100 C	World Geography	3
or GEOG 100HC Honors World Geography		
GEOG 160 C	Cultural Geography	3
<b>Spatially Related Courses (3-5 units):</b>		<b>3-5</b>
ANTH 102 C	Cultural Anthropology	3
or ANTH 102HC Honors Cultural Anthropology		
ANTH 103 C	Introduction to Archaeology	3
BIOL 103 C	Environmental Science	3
BIOL 122 C	Marine Biology	4
GEOG 100 C	World Geography	3
or GEOG 100HC Honors World Geography		
GEOG 102 C	Physical Geography	3
GEOG 130 C	California Geography	3
GEOG 140 C	Weather and Climate	3
GEOG 160 C	Cultural Geography	3
GEOG 202 C	Field Geography - Physical	1
GEOG 234 C	Current Topics in GIS	3
GEOG 260 C	Economic Geography	3
GEOL 100 C	Physical Geology	3
or GEOL 100HC Honors Physical Geology		
GEOL 120 C	Geology of California	3
GEOL 130 C	Introduction to Oceanography	3
GEOL 190 C	Environmental Geology	3
HS 147 C	Survey of Disease	3
ATC 174 C	Destin Americas and Europe	3
ATC 175 C	Destinations - Africa and Pacific	3
BUS 222 C	Principles of Marketing	3
BUS 224 C	International Marketing	3
ASTR 116 C	Introduction to Astronomy	3

or ASTR 116HC Honors Intro to Astronomy

**Spatial Courses with Lab (4 units):** **4**

*(Choose ONE option from the following)*

### OPTION 1:

GEOG 102 C	Physical Geography	3
or GEOG 102LC Physical Geography - Lab		

### AND

GEOG 102LC	Physical Geography - Lab	1
or GEOG 202 C Field Geography - Physical		

### OPTION 2:

GEOL 100 C	Physical Geology	3
or GEOL 100HC Honors Physical Geology		

### AND

GEOL 101 C	Physical Geology Laboratory	1
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**Computer Programming Skills (3 units):** **3**

CIS 211 C	Introduction to Programming	3
CIS 236 C	Intro to Oracle - SQL PL-SQL	3
CIS 247 C	Python Programming	3

**Total Units** **25-27**

[http://www.curricunet.com/Cypress/reports/program\\_report.cfm?programs\\_id=1427](http://www.curricunet.com/Cypress/reports/program_report.cfm?programs_id=1427)