

# GEOGRAPHICAL INFORMATION SYSTEMS - CERTIFICATE OF COMPLETION

This certificate focuses on the systematic study of map-making and the application of mathematical, computer, and other techniques to the analysis of large amounts of geographic data and the science of mapping geographic information. Includes instruction in cartographic theory and map projections, computer-assisted cartography, geographic information systems, map design and layout, photogrammetry, air photointerpretation, remote sensing, spatial analysis, geodesy, cartographic editing, and applications to specific industrial, commercial, research, and governmental mapping problems.

Examples: Geographic Information Systems (GIS), Spatial Analysis, Geomatics, Remote Sensing

Prefix	Title	Credits
<b>Technical Requirements</b>		
DRFT 109	Computer Drafting Fundamentals <sup>1</sup>	3
DRFT 153	Survey Drafting Applications	3
DRFT 204	Geographic Information Systems Technology	3
DRFT 254	Spatial Data Processing	3
DRFT 274	GIS Theory and Analysis	3
GEOG 1110G	Physical Geography (or Advisor Approved Elective (DRFT, GEOG, or SUR))	4
A final grade of C- or better is required in all DRFT courses.		
<b>Total Credits</b>		<b>19</b>

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This course can be completed through an articulated high school course.

## A Suggested Plan of Study

Additional classes may be needed based on placement test results and course prerequisites. Visit with an advisor for help with creating a customized plan.

<b>First Year</b>		
Fall		Credits
DRFT 109	Computer Drafting Fundamentals	3
DRFT 204	Geographic Information Systems Technology	3
GEOG 1110G	Physical Geography	4
<b>Credits</b>		<b>10</b>
<b>Spring</b>		
DRFT 153	Survey Drafting Applications	3
DRFT 254	Spatial Data Processing	3
DRFT 274	GIS Theory and Analysis	3
<b>Credits</b>		<b>9</b>
<b>Total Credits</b>		<b>19</b>