

COLLEGE CREDIT CERTIFICATE - GEOGRAPHICAL INFORMATION SYSTEMS

Previous Degree Required: HS Diploma

Eligible for Financial Aid: Yes

Delivery Method(s): On-Campus

Location(s): Cocoa, Melbourne

Additional Limited Access Application Process Required: No

Program Testing Requirements: Not Required

Academic Community: STEM

Program Code: GICC

Classification of Instructional Programs (CIP) Code: 45.0702

Florida Department of Education CIP Code: 0545070213

This certificate is part of the A.S. Computer Information Technology degree. This certificate program is designed to prepare students to acquire understanding of Geographic Information Systems (GIS), including concepts of spatial variables, scale, map projection, and map coordinate systems. Topics include displaying, managing, querying, symbolizing, and creating geospatial data. Students will learn the skills required to work on and/or build advanced Geographic Information Systems (GIS)/ Remote Sensing (RS) projects.

Students currently employed in the GIS field can supplement and upgrade their skills through a variety of offerings in this Geographic Information Systems certificate that include courses that employ the latest in GIS methods and techniques. Some credits earned in this certificate also apply to the Associate in Science (A.S.) degree in Computer Information Technology.

Refer to the [College Credit Certificate](#) overview page to find information about admission, graduation, general education and other requirements.

Visit the [program page](#) for more information.

Certificate Requirements

Code	Title	Credit Hours
Major Courses		
ETDC 1540	Civil Drafting	4
ETDC 2320	AutoCAD Fundamentals	4
GIS 2040	Fundamentals of Geographic Information Systems	3
GIS 2047	Applications of GIS, GPS, and Remote Sensing	3
GIS 2060	Advanced Geographic Information Systems	3
GRAC 2150	Raster Graphics	3
GIS 2948	Service Learning Field Studies 1	1
or SOW 1051	Human Service Experience 1	
Total Credit Hours		21

Learning Outcomes

1. Analyze Geographical Information System (GIS) computer applications
 - *Supports Core Ability: Process Information*

2. Analyze the history of remote sensing and Geographic Information Systems (GIS)
 - *Supports Core Ability: Think Critically and Solve Problems*
3. Select data for Geographic Information Systems (GIS) maps
 - *Supports Core Ability: Think Critically and Solve Problems*
4. Explain coordinate system, projections scale, and multi-spectral imagery
 - *Supports Core Ability: Think Critically and Solve Problems*