

GEOSPATIAL TECHNOLOGY CERTIFICATE

GEOG 220	Advanced Geospatial Information Systems	3
GEOG 230	Geospatial Project	4
Total Credits		20

Award: Certificate

No. of credits required: 20

For more information: Contact Assistant Professor Tamara Biegas, 443-412-2034, tbiegas@harford.edu; or Admissions, 443-412-2109.

Program Description

The Certificate in Geospatial Technology (GST) program at Harford Community College (HCC) provides students with the skills, knowledge and hands-on experience to pursue a career in geospatial technology.

The GST Certificate offers a comprehensive array of geographic information systems (GIS), remote sensing, and global positioning systems. The skills and knowledge acquired from the GST Certificate can be applied in a variety of fields including, but not limited to education, public safety, local, state, and federal government, banking, health and human services, transportation, utilities, natural resources, business, manufacturing, and telecommunication to make informed data driven decisions by analyzing geospatial data.

Program Goals

1. Apply techniques and knowledge of GIS, GPS, and Remote Sensing.
2. Develop maps using GIS and remote sensing software to visualize geospatial data.
3. Apply principles of geospatial technology through experiential learning with real world data in a laboratory setting and classroom discussions.
4. Describe the design, management and implementation of a geospatial project.
5. Evaluate, generate, manage, acquire, and process geospatial information.
6. Demonstrate effective written and oral communication skills.

Employment Information

The design of the Geospatial Technology certificate prepares students to enter the workforce with an employable credential that is also applicable to the degree. The Geospatial Technology certificate is designed to help students achieve their academic goals more quickly with the possibility of also achieving some financial security as they work toward a degree. With the potential for immediate workforce entry upon completion, the certificate contributes to the economic growth of the community and satisfies employer needs by filling jobs within the local industry.

Certificate Requirements

In order to earn a certificate from Harford Community College, students must demonstrate basic competencies in English, reading, and mathematics by completing: ENG 018 Integrated Reading and Writing, MATH 020 Pre-Algebra I, and/or a qualifying exam must be passed.

Required Courses

Code	Title	Credits
GEOG 101	Physical Geography (GB)	3
GEOG 203	Fundamentals of Geospatial Technology	3
GEOG 204	Introduction to Geographic Information Systems	4
GEOG 210	Remote Sensing and Global Positioning Systems	3