Human Resource Services Cluster

Geographic Information Systems (GIS) Program

PROGRAM OF STUDY OVERVIEW:

The Geographic Information Systems (GIS) Program focuses on the information and communication systems that power and inform our emergency services. Utilizing the nationally recognized S.T.A.R.S curriculum, students will engage in a sequence of courses that culminate in the S.T.A.R.S Certification for GIS.

IN THIS PROGRAM

Students will:
- Manipulate and analyze census data using a GIS;
- Apply the concepts of Geocoding and Hyperlinks within a GIS;
- Manipulate remote sensing data to identify features and analyze data;
- Apply geospatial tools in solving GIS problems;
- Integrate external hardware, such as GPS, to incorporate real-time data into a GIS;
- Manage a data inventory;
- Follow detailed project implementation steps to plan and create a GIS for a project; and
- Use GIS software and any necessary tools to gather and manipulate the project data.

COURSE SEQUENCE

- S.T.A.R.S. Course I
- S.T.A.R.S. Course II
- Internship/Capstone Experience

For course descriptions, please see the WCPS Course Catalog @ https://www.worcesterk12.com/

STUDENT ORGANIZATION

- Geographic Information System (GIS) Certification
- ESRI ArcGIS Certification

CERTIFICATIONS

- Anne Arundel Community College
- Harford Community College
- University of Maryland College Park

EARLY COLLEGE PROGRAM PARTNERS

9th Grade Entrance
(By 8th Grade Application)

- Spring Freshman
- Fall Sophomore
- Fall Sophomore
- Spring Sophomore
- Junior
- Senior

10th Grade Entrance

- Spring Sophomore
- Fall Junior
- Fall Junior
- Spring Junior
- Senior

11th Grade Entrance

- Spring Junior
- Fall Senior
- Fall Senior
- Spring Senior
- Senior