

Job Market?

Who might employ me?

Geospatial information is increasingly becoming the driving force for decision making across the local to global continuum. Many tasks can be greatly enhanced by the use of some form of geospatial technology, such as:

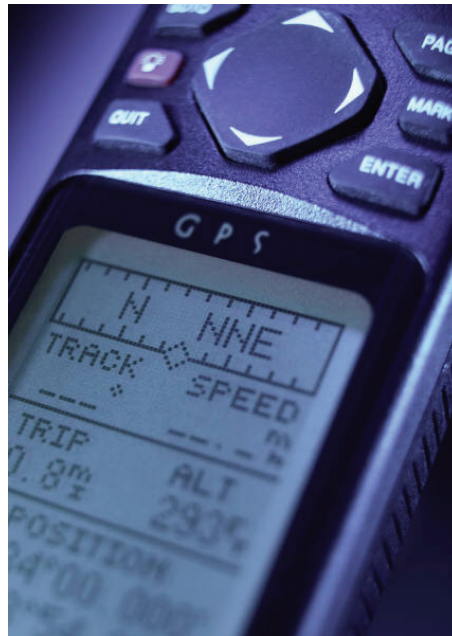
- Managing a forest
- Routing 911 vehicles
- Designing a cellular phone network
- Guiding "intelligent" vehicles
- Managing a city
- Assessing environmental impact
- Designing a road
- Mapping natural hazards and disasters
- Providing famine relief
- Studying the causes and consequences of global climate change



Join the GIS Team.

Find out more about GPS/GIS:

- <http://www.gps.gov/>
- <http://en.wikipedia.org/wiki/GIS>
- <http://rst.gsfc.nasa.gov/>
- <http://www.amerisurv.com/>
- <http://gislounge.com/>



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Geographic Information Systems & Technology

- Learn a cutting edge skill!
- Get an industry certification while in high school
- Take part in a great program

Take a closer look !



Francis Scott Key High School
3825 Bark Hill Road
Union Bridge, Maryland 21791

What are the courses like?



FSK's Homeland Security program is a four course completer program that counts toward your state requirement for graduation. **The first course**, Foundations of Homeland Security and Emergency Preparedness, focuses on the guidelines, concepts, and action plans with an emphasis placed on public safety and public health. The **second and third courses** consist of learning a program called **STARS (Spatial Technology and Remote Sensing)**.

The courses delivered in the **STARS** curriculum series are designed to both teach and assess a student's level of competence in geospatial skills and project management. This two semester series of courses provides students with the skills to be an entry level geospatial technician.

The introductory series, **STARS 1 and 2**, covers topics from basic concepts in Project Management to GIS, GPS, and remote sensing. It is in this course where students learn about history of mapping, projections, coordinate systems, scale, multispectral imagery, and various other concepts that are essential to being effective in GIS/RS.

The advanced series, **STARS 3 and 4**, will discuss the uses and applications of ArcGIS software and its extensions including: Spatial Analyst, 3D Analyst, Network Analyst, and ERDAS's Image Analysis extension for ArcGIS. Each of the "final" projects are designed to let the students put their Geospatial skills to use. Each student will need to complete one project and achieve a 70% or higher on the written STARS exam to become STARS certified.

The **fourth course** is a capstone experience. The independently designed project allows students to show application of geospatial skills and concepts learned in previous coursework and experiences. At the end of the course, students will compile a working portfolio which documents their academic and technical skill attainment and present it for critique.

What advantages does the program give me?



- Gain experience with cutting edge technology.
- Learn ArcGIS and geospatial skills
- Create a marketable portfolio that can be used for employment or college admittance
- Obtain real life experience with an internship
- Prepare for a colleges like Towson, UMUC or others who have this great program
- Become one of a few students leaving high school with this skill
- Get the same certification students would earn at the college level



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Who should be certified in the Geospatial Technology field?



The Department of Labor classifies workers in the field of geospatial technology as "GIS (Geographic Information Systems), GPS (Global Positioning Systems), surveyors, cartographers, photogrammetrists, and surveying technicians." However, a certification in Geographic Information Systems can apply to many other careers and to many other fields.



"A survey of geospatial product and service providers revealed that 87% of respondents said they had difficulty filling positions requiring geospatial technology skills."

Emily Stover DeRocco, Assistant Secretary of Labor