

# GIS Faculty

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*Geospatial Information Science*

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GEOGRAPHY FOUNDATION

INTEGRATIVE EXPERIENCE

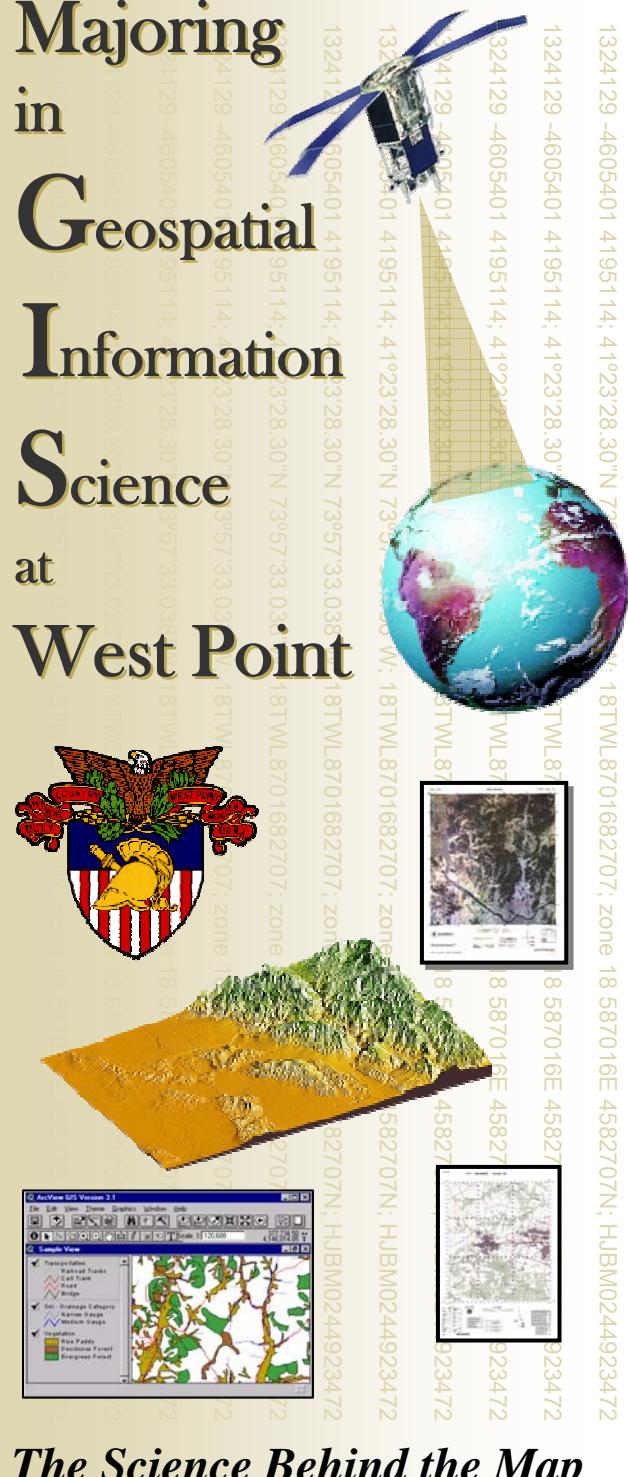
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|--|--|
| <ul style="list-style-type: none"> <li>• EV377 Remote Sensing</li> <li>• EV378 Computer Cartography</li> <li>• EV398 Geographic Information Systems</li> </ul> | <ul style="list-style-type: none"> <li>• EV365 Geography of Global Cultures</li> <li>• EV482 Military Geography</li> </ul> |
| <p><b><u>ADVANCED SPATIAL DATA ANALYSIS (TAKE BOTH)</u></b></p>  | <p><b><u>TWO ELECTIVES</u></b></p>   |
| <ul style="list-style-type: none"> <li>• EV477 Advanced Remote Sensing</li> <li>• EV498 Advanced Geographic Information Systems</li> </ul>                     | <ul style="list-style-type: none"> <li>• EV365 Geography of Global Cultures</li> <li>• EV482 Military Geography</li> </ul> |

### **SPATIAL DATA ACQUISITION (SELECT ONE))**

- EV379 Photogrammetry
  - EV380 Principles of Surveying
  - Select one additional course from the GIS Free Electives list

*Cadets majoring in Geospatial Information Science receive a 3Y (Space Activities) Skill Identifier on the official military record*

# Majoring in **Geospatial** **Information** **Science** at **West Point**





## *Majoring in* **GEOSPATIAL INFORMATION SCIENCE**

### Geospatial Technology in the Military

The military increasingly relies on geospatial technology and data to achieve information dominance on the battlefield. Examples include: GPS, satellite imagery, real-time force tracking, sensor integration, and massive geographic databases.

To dominate on the battlefield, the Army's transformed fighting forces depend on leaders who understand the capabilities and limitations of geospatial technologies.

**Majoring in Geospatial Information Science** gives future Army Officers, regardless of branch, the knowledge set to leverage these tools when leading soldiers in our high tech digital Army.

#### EV379 Photogrammetry

*The art and science of making accurate measurements with images*



#### EV377 Remote Sensing EV477 Adv. Remote Sensing

*Analyzing geographic features from satellites and aerial platforms*



The Geospatial Information Science Program uses a hands-on approach to teach the science behind the technologies that locate, measure, and quantify geographic phenomena.

Specialized courses, taught with an application focus and using a state-of-the-art computer facility, introduce the various components of geospatial science.

#### EV398 Geographic Information Systems

#### EV498 Adv. Geographic Information Systems

*Study the input, storage, manipulation, and analysis of geospatial data on computer systems*



#### EV380 Surveying

*Obtaining accurate measurements in the field with laser range finding and GPS*



#### EV378 Cartography



*Teaches the principles of cartographic communication using computer mapping technology*

### Geospatial Technology outside the Military

*"...the ancient art of cartography is now on the cutting edge."* *Newsweek June 7, 2004*

Geospatial technology is one of the leading growth industries over the next decade according to the U.S. Department of Commerce. Geospatial technology is becoming an integral component of nearly every business and most government agencies from the local to federal level. Many of these organizations are directly involved in Homeland Defense.

A major in **Geospatial Information Science** allows you to excel in this field and prepares you for graduate school in this or many other related disciplines.