

CAPTURE, STORE, ANALYZE

Geographic Information System (GIS) is a system for capturing, storing, analyzing and managing data and associated attributes which are spatially referenced to the earth.

GIS is the science underlying the geographic concepts, applications, and systems taught in the Department of Advanced Technologies at Alcorn State University.

Sound Interesting? Then join our department and learn just how broad your future can be with **GIS&T**.

PROGRAM HIGHLIGHTS

- Get invaluable, real world experiences using GIS to create interactive queries, analyze spatial information, edit data and maps, and present the results of all these operations.
- The U.S. Department of Labor has identified GIS as a key emerging and evolving industry with plenty of opportunities as a career path.
- Learn from a diverse group of professional who have spent years in the profession honing their spatial skills.

ARE YOU READY?

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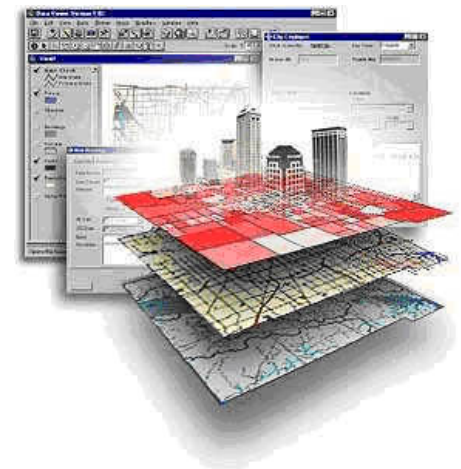
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ALCORN STATE UNIVERSITY

**DEPARTMENT OF ADVANCED
TECHNOLOGIES**



**GEOGRAPHIC INFORMATION
SCIENCES AND TECHNOLOGY
(GIS&T) PROGRAM**

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THE GIST OF GIS&T



and related technologies are now widely used in government agencies, private businesses, citizens groups, and research institutions.

As the demand for these technologies has grown, and as their applications have diversified, the field concerned with the development and use of these technologies has also evolved.

Today, GIS software is only one component of a broad domain that is referred to as Geographic Information Science and Technology (GIS&T). GIS&T is composed of three interrelated sub-domains:

- Geographic Information Science
- Geospatial Technology
- Applications of GIS&T

GEOGRAPHIC INFORMATION SCIENCES & TECHNOLOGY

The Department of Advanced Technologies at Alcorn State University offers a Bachelor of Science degree in Applied Science with a concentration in **Geographic Information Sciences & Technology (GIS&T)**.

Students majoring in **GIS&T** receive a hands-on approach while gaining

expertise in various kinds of spatial data, computer tools, and data quality.

WHAT YOU CAN EXPECT

The articulated set of courses in **GIS&T** will allow students to build their knowledge and practical expertise in the field of GIS, Remote Sensing, Global Positioning Satellite Systems, Photogrammetry and other related technologies.

Students will also be acquainted with the theoretical issues in **GIS&T**. Students learn and understand various kinds of spatial data, computer tools, and data quality - considerations that are important to use in making sound decisions.

COURSEWORK

Students undertaking the program will develop their knowledge and understanding through formal course work.

Courses include:

- Computer Cartography
- Introduction to GIS
- Spatial Epidemiology
- Intro to Remote Sensing
- Advanced GIS
- Spatial Statistics
- Advanced Remote Sensing
- Mapping Law and Profession
- Crime Analysis using GIS
- Remote Sensing Application to Resource Management

- Mapping Better Business Strategies with GIS
- Remote Sensing Applications to Public Health
- Forest Surveying
- Application of GIS to Economic Development

CAREER PATHS IN GIS&T

Across the country, tens of thousands of geospatial workers are needed to fill open positions (www.gis.com; www.gjc.org/gjc-cgi/listjobs.pl).



Graduates can find careers as:

- GIS Developer
- GIS/Engineering Technician
- GIS Analyst
- GIS/CAD Engineer
- GIS Software Developer
- Remote Sensing Specialist
- Imagery Applications Analyst
- GIS Crime Analyst

FOR MORE INFORMATION ▼

Visit adtech.alcorn.edu to learn more about the Department of Advanced Technologies.