

SURVEYORS ANSWER QUESTIONS

- How much land does this person own?
- Where should the new buildings go on this parcel?
- Is this a good site for a subdivision?
- What really happened at this accident site?
- Will this proposed project make life easier for the people in this community?
- Where does their land stop and their neighbor's begin?
- Is this a good site for solar or wind energy?

Surveyors use a variety of tools and skills to answer these questions, including some of the most state-of-the-art satellite and scanning technology, computers, a knowledge of geometry, trigonometry and statistics, and a thorough grounding in our legal system and how it operates in relation to land ownership issues. The Bachelor of Science in Surveying and Mapping Science at ETSU is designed to prepare students for this important work.

Learn more by visiting our website at
WWW.ETSU.EDU/SURVEYING
or contacting:

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BACHELOR OF SCIENCE IN SURVEYING AND MAPPING SCIENCE



EAST TENNESSEE STATE
UNIVERSITY

PROGRAM DESCRIPTION

ABOUT

Surveying is a rapidly developing profession that focuses on the location of various land use rights and the boundaries between them. Consequently surveying is often considered to be a quasi-judicial profession. Like most professional fields, surveying is grounded in the sciences, notably the sciences of mathematics and measurement theory. Perhaps to a greater extent than many other professions, surveying is being rapidly affected by new technological changes, such as GPS, Geographic Information Systems (GIS), computerized mapping, robotics, scanning, and wireless communications.

WHY ETSU?

The Bachelor of Science in Surveying and Mapping Science is accredited by the Applied Science Accreditation Commission of ABET, the Accrediting Board for Engineering and Technology, www.abet.org.

ABET is the premier accrediting organization of applied science, computing, engineering and engineering technology programs in the United States.

- A degree that's accepted as the educational foundation for the Professional Surveying License throughout the United States.
- Most of the program's classes are video-streamed live so that students who cannot always come to campus can take courses from a distance.
- The program is part of the Academic Common Market, an agreement with Kentucky, Virginia, West Virginia, South Carolina, Alabama and Mississippi. Residents in these states, as well as those in the border counties of North Carolina, may be eligible for in-state tuition rates.



OPPORTUNITIES

Some of the job fields open to graduates include:

- Boundary, construction or topographic surveying
- Geographic Information Systems (GIS) analysis
- Hydrographic, mine, forensic or geodetic surveying
- Photogrammetry
- Land development
- Cartography

Graduates may use their surveying skills in a variety of industries, such as private surveying and engineering firms, land development and real estate companies, and aerial mapping and photogrammetric firms. Still others may seek opportunities in local, county, state, and national government in areas such as public works, GIS and land record agencies, the U.S. Corp of Engineers, or U.S. military branches.

An undergraduate degree in Surveying and Mapping Science provides a good foundation for graduate study in fields like:

- Engineering
- Law
- Urban and Regional Planning
- Geographic Information Systems (GIS)
- Geodesy
- Cartography

FAST FACTS

The U.S. Bureau of Labor Statistics projects the employment of surveyors will grow **10 percent** between 2012 and 2022, due to expected increases in construction and the rising average age of current professional surveyors.

