

Surveying Engineering

Defining boundaries and measuring land have been an important part of human endeavor since the beginning of recorded history. Whether determining the shape of a nation or specifying the path of a new highway, our world is defined through surveying. Surveying engineers analyze, design and execute surveying and mapping projects. In addition to knowledge of the mathematical and computational methods involved in surveying measurement and analysis, surveyors must also have an understanding of the legal principles of boundary location and the laws related to boundaries and land use.

Surveying Engineering Studies

Surveying engineering students learn the scientific, mathematical and engineering principles of surveying, along with the legal, political and social context of surveying. They also study the responsibilities and ethics of surveying professionals. They learn how to collect, analyze, interpret and apply survey data. NMSU surveying engineering graduates are prepared for licensure by the state in which they work.

Research Highlight

Surveying engineering faculty and students are conducting work for the U.S. Bureau of Land Management to convert previously collected public lands survey system records into modernized digital data. Students are actively involved in this project, which is exposing them to the technical issues involved with the abstraction, manipulation, analysis and subdivision of townships.

DID YOU KNOW?

NMSU is the only college in New Mexico offering a surveying engineering degree program.

