SURVEYING ENGINEERING TECHNOLOGY (SET)

Program Educational Objectives

1. Graduates will have a body of knowledge to gain requisite experience to become licensed professional land surveyors, survey technicians, and/or geospatial information analysts.
2. Graduates will be able to take on increasing responsibilities and supervisory roles. Some graduates will start their own surveying practice.
3. Graduates will be able to apply and expand upon their undergraduate level surveying education through involvement in organizations dedicated to the advancement of geospatial knowledge and technology.

Student Outcomes

a an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities;

b an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;

c an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;

d an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;

e an ability to function effectively as a member or leader on a technical team;

f an ability to identify, analyze, and solve broadly-defined engineering technology problems;

g an ability to apply written, oral, and graphical communication in both technical and nontechnical environments; and an ability to identify and use appropriate technical literature;

h an understanding of the need for and an ability to engage in self-directed continuing professional development;

i an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;

j a knowledge of the impact of engineering technology solutions in a societal and global context;

k a commitment to quality, timeliness, and continuous improvement;

Program Criteria

1. an ability to utilize modern measurement technologies to acquire spatial data;
2. an ability to utilize industry- standard software to solve technical problems;
3. an ability to apply technical concepts to the design of measurement systems to meet project requirements;
4. an ability to analyze data for conformance with precision and accuracy requirements;
5. an ability to perform standard analysis and design of ALTA/NSPS land title surveys.