Surveying Technology

Official Program Checksheet

Why Choose Surveying Technology?

The Surveying Technology program at Ferris is designed to provide students with the skills and knowledge necessary to function as effective member of surveying field crew. Graduates have the ability to operate equipment and perform basic surveying calculations and create maps using different computer-assisted mapping software.

Courses cover the use of basic surveying instruments, evaluation of the accuracy of field data, production of computer drawings using surveying and mapping software, use of advanced electronic total stations, inspection of basic civil engineering materials such as soils, aggregates, portland cement and bituminous concrete, the study of laws and history of past judgments pertaining to boundary establishment, conformance with established survey standards and effective communication with clients and colleagues.

Career Opportunities

Surveying technicians assist surveyors in making precise measurements of the earth's surface for the purpose of establishing property boundaries, subdividing land parcels, creating maps of land and water forms for planning, navigation and general use, and the layout and control of construction projects. Technicians are familiar with the operation of sophisticated optical and electronic surveying instruments needed for compiling this information.

Surveying technicians work for private engineering and land surveying firms assisting in the construction of roads, bridges, buildings and dams as well as making measurements to determine the location of property boundaries. They also may find jobs with local, state and federal government agencies.

Prospects for advancement are excellent. There are numerous job opportunities for each graduate. Students who possess strong technical skills, management abilities and a desire for increased responsibilities can rise to supervisory positions.

Admission Requirements

Admission to the College of Engineering Technology is open to high school graduates who demonstrate academic preparedness, maturity and seriousness of purpose with backgrounds appropriate to their chosen program of studies. Among first-time students in our technical programs, the average high school GPA is 2.8, and the average ACT composite score is 20.

Students entering the Surveying Technology program must have a high school diploma with a
minimum 2.5 GPA and an ACT math subscore of 19 or SAT 16 math subscore of 500 or Math 115 placement. Minimum composite ACT of 18 or SAT 16 of 950.

Transfer students must have a 2.0 or higher cumulative average and be MATH 115 eligible.

**General Education Requirements**

All University General Education requirements can be found here: [http://www.ferris.edu/HTMLS/academics/general-education/requirements/AAS.htm](http://www.ferris.edu/HTMLS/academics/general-education/requirements/AAS.htm)

Please consult this link for a complete listing of General Education Electives: [http://www.ferris.edu/HTMLS/academics/general-education/courses/index.htm](http://www.ferris.edu/HTMLS/academics/general-education/courses/index.htm)

Consult the official checksheet or program advisor for program specific General Education requirements.

**Graduation Requirements**

The Surveying Technology program at Ferris leads to an associate in applied science degree. Graduation requires a minimum 2.0 GPA in core classes, in the major and overall. Students must complete all general education requirements as outlined on the General Education website.

**More Information**

Surveying Engineering Program  
College of Engineering Technology  
Ferris State University  
915 Campus Drive/Swan 312  
Big Rapids, MI 49307-2280  
Phone: 231-591-2633  
email: surveying@ferris.edu

The College of Engineering Technology Surveying Engineering BS program is an accredited program of the Engineering Accreditation Commission of the ABET.