

## Contact

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## Admission Requirements

(In years as established by the college)

A high school diploma with the following specific courses:

- 4 English
- 2 Algebra I & II
- 1 Geometry
- 1/2 Trigonometry
- 2 Lab Science (*including physics*)
- 2 History/Social Studies
- Academic electives (*to equal at least 17 total credits*)

*To ensure current mathematical skills, students should take a mathematics course during their senior year of high school.*

## Major Requirements

44 credits	Surveying Engineering Technology
6 credits	Other Required Courses
22 credits	Sciences & Mathematics
15 credits	Human Values & Social Context
15 credits	Communications ( <i>English, writing, speech</i> )
3 credits	Business
21 credits	Electives

*126 Minimum total credit hours required for graduation*

## College of Engineering

### Program Description

The Surveying Engineering Technology program trains individuals to enter a career in professional surveying. Professional surveying offers a rewarding career that combines history, art, mathematics, communications, science, civil engineering, and business with surveying engineering to build a foundation for professional surveying practice. Persons that enjoy the outdoors while operating independently to solve problems, all while earning a good salary, will enjoy the profession of surveying.

The objective of the Surveying Engineering Technology program is to provide quality instruction in surveying and engineering. The objective of the program is fulfilled by providing students with a foundation in mathematics, science, communications, social science, and humanities. The foundation is coupled with instruction in plane surveying, construction surveying, photogrammetry, remote sensing, boundary law, civil engineering, cadastral surveying, global positioning systems, land development design, and geographic information systems. The result is a graduate able to take on the responsibility of professional surveying practice.

**Computers:** All incoming students are required to have a laptop computer.

### Career Opportunities

Opportunities for employment are numerous in the New England area and throughout the United States. Positions exist in rural, urban, and city environments. The Bureau of Land Management is expected to have several hundred openings in the next few years. Engineering and surveying consulting firms also have a large need for graduates. Within four to ten years, graduates are usually employed in management positions as licensed surveyors, certified photogrammetrists, or licensed engineers. Many alumni have their own consulting firm.

### Summer Employment

There are numerous opportunities for summer employment. The Bureau of Land Management offers numerous Summer intern positions throughout the United States with good pay and per diem. Summer is a busy time for private consultants so summer employment is possible in most areas.

### Specialty Concentrations or Tracks

With judicious use of electives within the Surveying Engineering Technology program, a student can specialize in the following areas:

- Fundamentals of Engineering (5 elective courses)
- Construction Management - Minor in Construction Management Technology (4 elective courses)
- Business - Minor in Business (5 elective courses)
- Legal Technology (5 elective courses)
- Geographic Information Systems (5 elective courses)
- Entrepreneurial minor in Engineering Entrepreneurial (5 elective courses)

## NEBHE Program

Under the New England Regional Student Program ([www.nebhe.org](http://www.nebhe.org)), administered through the New England Board of Higher Education, the Bachelor of Science degree in Surveying Engineering Technology is open to applicants who reside in New Hampshire, Connecticut, Rhode Island, Massachusetts, or Vermont for reduced tuition (in-state tuition plus 50 percent).

## Professional Societies

Scholarship information along with career and employment information is available from the following professional societies:

- American Congress on Surveying and Mapping (ACSM) <<http://www.acsm.net/>>
- American Congress on Surveying and Mapping-New England Section (ACSM-NES) <<http://www.acsm-nes.org/>>
- American Society of Photogrammetry and Remote Sensing (ASPRS) <<http://www.asprs.org/>>
- Connecticut Association of Land Surveyors (CALS) <<http://www.ctsurveyor.com/>>
- Maine Society of Land Surveyors (MSLS) <<http://www.mspls.org/>>
- Massachusetts Association of Land Surveyors and Civil Engineers (MALSCE) <<http://www.malsce.org/>>
- New Hampshire Land Surveyors Association (NHLSA) <<http://www.nhlsa.org/>>
- Rhode Island Society of Professional Land Surveyors (RISPLS) <<http://www.rispls.org/>>
- Vermont Society of Land Surveyors (VSLS) <<http://www.vsls.org/>>

## Transfer Credits

The Surveying Engineering Technology program has reached agreement with many New England two-year technical colleges permitting students to transfer into the Surveying Engineering Technology program with two years of course credits.

## Frequently Asked Questions

\* **What positions can I apply for as a graduate of the Surveying Engineering Technology program?** A surveying assistant is a typical starting position. Those with Summer experience are often employed as party chiefs upon graduation. Technical positions such as photogrammetrist or project engineer are also common starting positions.

\* **Where can I work?** Work is available almost anywhere from Hawaii to Alaska, California to Maine. Most graduates tend to work in the New England area where they are close to friends and family. Some graduates choose large firms for the varied experience and excellent salary. Other graduates choose small, rural firms for the quality of life and friendly community. Many have chosen government service for the excellent experience, speedy responsibility, excellent benefits, and travel opportunities.

\* **How hard is it to get a job?** Within the last ten years employment offers have been numerous throughout the New England area. Even when economic growth was slow, jobs were available in the southern and mid-western United States.

\* **What is the salary I can expect?** Salaries are heavily dependent on the area of employment. Salaries range from \$25,000 to \$60,000. Large urban areas tend to pay higher salaries than remote, rural areas.

\* **What is the average class size in the technology programs?** The average class size for technology classes is 20 students.

\* **Who are the faculty?** There are three full-time faculty and one part time faculty. All full-time faculty are licensed professional land surveyors. All faculty have at least a master of science degree. Two of the faculty have a Ph.D. One faculty has a law degree. All faculty have several years of experience and are members of local and national professional organizations.

\* **Where can I find additional information about surveying as a career and the surveying technology program?** Additional information can be found at the surveying engineering technology web site (<http://www.umaine.edu/set/svt>), calling the program coordinator, or writing to the Director for the School of Engineering Technology (see address and telephone numbers on the front of this fact sheet).

### Academic Programs 2008-2009

Please refer to the web site (<http://factsheets.umaine.edu/>) for the most updated version of the fact sheets.

This fact sheet is intended for informational purposes only and is subject to change.