

Surveying Engineering Technology

Bachelor of Science Degree

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
- 1 Biology (recommended)
- 2 Algebra I & II
- 1 Geometry
- 1 Pre-Calculus
- 2 Lab Science (chemistry and 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.

Did You Know?

Our success in preparing for licensure exams excels in comparison to other institutions.

College of Engineering

Program Description

The Surveying Engineering Technology Program trains individuals to enter a rewarding career in professional surveying. Professional surveying combines history, art, mathematics, communications, science, civil engineering, and business with surveying engineering to build a foundation for professional surveying practice. People who 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 by providing students with a foundation in mathematics, science, communications, social science and the humanities. This 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. The University of Maine offers the only bachelor's program in surveying in New England, with a 97 percent success rate among our seniors passing the national Fundamentals of Surveying exam required for licensure. The program also is ABET-TAC-accredited. The department is proud of the financial support it receives from federal agencies, private agencies and private individuals. For example, ARAMCO has provided funding for several students from the Middle East to attend our program.

Specialized Information

Topcon Corp., has provided the latest survey equipment, and the New England state land survey societies have provided a foundation-funded photogrammetry laboratory. Private donations have allowed for 12 surveying scholarships to be funded through the Foundation. Students have worked in summer internships with the Bureau of Land Management and the Forest Service in Alaska, Oregon, California, Arizona, New Mexico, Montana, Colorado, Virginia and Maine. All incoming students are required to have a laptop computer.

Associated Honor Societies and Student Organizations

Students are encouraged to participate in national student competitions and attend the national meeting of the American Congress on Surveying and Mapping. UMaine has a chapter of Tau Alpha Pi, the national engineering technology honor society and the Society for Women Engineers.

NEBHE Program

Applicants to this program who reside in Connecticut, Massachusetts, New Hampshire, Rhode Island or Vermont are eligible for reduced tuition (in-state plus 50 percent) under the New England Regional Student Program, administered through the New England Board of Higher Education (nebhe.org).

Representative Courses

SVT 100	Introduction to Surveying Technology	SVT 329	Site Planning and Subdivision Design
SVT 110	Instrumentation and Data Collectors	SVT 341	Advanced Surveying
SVT 121	Autocad for Surveyors I	SVT 352	Practical Field Operations
SVT 122	Autocad for Surveyors II	SVT 418	Fundamentals of Surveying Exam Overview
SVT 331	Photogrammetry	SVT 437	Practical GPS
SVT 201	Adjustment Computations	SVT 475	Small Business Management
SVT 221	Boundary Law	SVT 490	Surveying Capstone
SVT 322	Preparing Effective Property Descriptions		

Career and Graduate 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 severe need for graduates. In four to 10 years, graduates are usually employed in management positions as licensed surveyors, certified photogrammetrists or licensed engineers. Many alumni have their own consulting firm.

Special Option for International Students

For international students receiving a B.S. in surveying engineering technology, the courses: SVT 221 Boundary Surveying (3 cr.); SVT 322 Preparing Effective Property Descriptions (1 cr.); SVT 329 Site Planning and Subdivision Design (1 cr.); SVT 418 Fundamentals of Surveying Exam Overview (1 cr.); Fundamentals of Surveying Exam (0 cr., required for graduation) are preparation for licensure as a land surveyor in the United States and may not apply outside of the United States. Therefore, it is possible for an international student to not take these courses, but instead select from the following list. The total number of credits taken from this list must equal or exceed 6 credits. Note: These courses are also program electives, but in this case cannot be counted toward that total if substituting for the above 6 credits.

CET 211	Static and Strengths of Materials (4 cr.)	EET 330	Electrical Applications (4 cr.)
CET 212	Structural Design (4 cr.)	MET 433	Thermodynamics (3 cr.)
CIE 110/11	Materials & Materials Lab (4 cr.)		Any SIE course (adding to Geographic Information Systems knowledge)

An international student can choose the present curriculum taken by U.S. students. These substitutions must be approved by the SVT program coordinator before they are taken.

UMaine Graduate Programs

Master of Science in Spatial Information Science and Engineering
Master of Science in Information Systems
Doctor of Philosophy in Information Science and Engineering

About UMaine

The University of Maine, founded in Orono in 1865, is the state's premier public university. It is among the most comprehensive higher education institutions in the Northeast and attracts students from across the U.S. and more than 60 countries. It currently enrolls 12,000 total undergraduate and graduate students who can directly participate in groundbreaking research working with world-class scholars. Students are offered 88 bachelor's degree programs, 64 master's degree programs, 25 doctoral programs and one of the oldest and most prestigious honors programs in the U.S. The university promotes environmental stewardship on its campus, with substantial efforts aimed at conserving energy, recycling and adhering to green building standards in new construction. For more information about UMaine, go online (umaine.edu). Equal opportunity information also is available online (umaine.edu/eo).

How do I apply?

Visit go.umaine.edu for an application as well as information about academics and life at UMaine.



Academic Programs 2011-12

The latest versions of the UMaine fact sheets are online (factsheets.umaine.edu). This fact sheet is intended for informational purposes only and is subject to change.

