

Forest Operations Science

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
- 2 Algebra I & II
- 1 Geometry
- 1/2 Trigonometry (strongly recommended)
- 2 Lab Science (biology & chemistry or physics)
- 2 History/Social Studies
 Academic electives (to equal at least 17 credits)

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

Did You Know?

Forest resources in Maine are a high priority with the state and with the public. A forest resources student at the University of Maine will enjoy a level of visibility and importance not found elsewhere.

College of Natural Sciences, Forestry, and Agriculture

Program Description

The program is accredited by the Society of American Foresters and by the Society for Wood Science and Technology.

In an effort to improve the curricula to meet changing demands, the School of Forest Resources will be combining forest operations science with wood science and technology into a single degree dealing with forest bioproducts and bioenergy. The revised degree will improve upon the current curriculum by emphasizing studies on the supply, production and use of forest resources, especially with the emerging markets for bioproducts, advanced composite materials and bioenergy systems. The revised degree will be available in September 2012.

Until then, students can enroll in the current forest operations science degree until graduation or have the option of switching to the revised program when it becomes available.

Specialized Information

The Orono area is surrounded by forests, allowing most forest resource laboratories to be taught outside. Maine has more forests than the rest of New England combined, which provides students with multiple opportunities for research and work experience.

The Cooperative Forest Research Unit hires five to 12 students each summer to help with research projects supported by state landowners. The work consists of traveling to all parts of the state and working outdoors for the summer.

Associated Honor Societies and Student Organizations

Students are encouraged to join the Woodsmen's Team and UMaine chapter of the Society of American Foresters. They also have opportunities to attend such annual professional conferences as the New England Regional Council on Forest Engineering and state, New England and national meetings of the Society of American Foresters.

Special recognition includes the university chapter of the national forestry honor society Xi Sigma Pi.

NEBHE Program

Applicants to this program who reside in Connecticut, Massachusetts, 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).

Career and Graduate Opportunities

Graduates of the forest operations science program will be prepared for careers in forest land management, industrial and consulting forestry, and the administration and supervision of wood processing facilities. Specific career areas include: forest operations, wood appraisal and procurement, forest road planning and design, harvest planning and administration, mill supervision and wood products marketing.

Representative Courses

FES 100 Introduction to Forest Biology	FES 456 Tree Pests and Disease I
FTY 101 Introduction to Forest Resources	FTY 444 Forest Resources Economics
FTY 107 Forest Vegetation	FTY 480 Applied Geographic Information Systems
FTY 104 Statistical Inference for Forest Management	WSC 319 Wood Deterioration and Protection
FTY 105 Introduction to Forest Measurements	WSC 425 Mechanical Properties of Wood
FTY 241 Field Practice in Forest Management	FSC 403 Forest Roads
FTY 208 Forest Surveying and Mapping	FTY 476 Forest Management I
FSC 301 Forest Machinery	WSC 314 Wood and Wood-Fiber Processing
FTY 206 Photogrammetry and Remote Sensing	FTY 446 Forest Resources Policy
FTY 266 Advanced Forest Measurements	FTY 440 Marketing
FES 407 Forest Ecology	FSC 408 Forest Operations Planning and Analysis
FES 408/409 Forest Ecology and Silviculture/Field Laboratory	FSC 405 Timber Applications and Acquisition
FSC 401 Timber Harvesting	WSC 410 Mill Tour
FTY 457 Forest Watershed Management	

UMaine Graduate Programs

Master of Forestry

Master of Science in Forest Resources

Doctor of Philosophy in Forest Resources

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.



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umaine.edu/socialnetwork