

## 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 total credits*)

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

## Major Requirements

- Core - 29-30 credits, required for all students
- 9 credits Forestry, Forest Ecosystem Science & Conservation
  - 14-15 credits Science & Mathematics
  - 6 credits Communication & Economics

### Students select one concentration:

#### *Forest Conservation*

- 25-32 credits Conservation & Biology
- 6 credits Forest Measurements & GIS
- 9 credits Policy/Social Aspects
- 6 credits Capstone/Ecosystem Management
- 37-45 credits Electives

#### *Forest Ecosystem Science*

- 18 credits Forest Sciences
- 24-26 credits Science & Mathematics
- 4 credits Senior Research Capstone
- 42-45 credits Electives

*120 Minimum total credit hours required for graduation*

## College of Natural Sciences, Forestry & Agriculture

## Program Description

The Bachelor of Science in Forest Ecosystem Science and Conservation (FEC) is designed to provide students with the breadth and depth of understanding required to become active participants in promoting the sustainability of our forests in the future.

*Flexible Curricula* – The FEC curricula are organized into core requirements and two areas of concentration – Forest Ecosystem Science and Forest Conservation. The Forest Conservation concentration is flexible and allows the student to explore a wide range of topics involving trees, wildlife, soils, ecology, policy, and ecosystem management. The Forest Ecosystem Science concentration outlines a program that will make students highly competitive for graduate studies in such areas as forest ecology, silviculture, forest health, or tree physiology.

*Double Majors and Minors* – The FEC program is a partner to the long established Forestry program at the University of Maine. While the Forestry program focuses on the management of forests, the FEC program emphasizes the biology and conservation of forest ecosystems from the molecular to the biosphere level. It is possible to have a double major in FEC and Forestry as well as in FEC and Wildlife Ecology. Other program options include the declaration of academic minors in such areas as biology, botany, ecology and environmental science, environmental management and policy, fisheries, forest products, forest recreation management, geological sciences, plant science, soil science, surveying, or zoology.

*The “Maine” Difference* – Maine is the most forested state in the country and provides an ideal setting for studies in Forest Ecosystem Science and Conservation. Students can expect courses and work opportunities to bring them into the Maine woods as an integral part of their education. In addition, faculty have active research programs and are the primary instructors and advisors for students resulting in an educational experience of exceptionally high quality.

*Career Enhancement* – We encourage FEC students to work with faculty and graduate students on research projects including: Old-growth forests, silviculture, ecosystem management, forest health, climate change, tree biology, and other challenging projects. College and University funds are available for travel to meetings and for student projects.

## Scholarships

Scholarships are available through the University, College, and Forest Resource programs. Incoming first-year students are automatically considered for awards. Students are eligible for additional awards throughout their matriculation. There are over 40 scholarships in Forest Resources worth over \$250,000.

## Career Opportunities

Graduates in FEC have entered graduate school at Northern Arizona University, Oregon State University, Penn State University, University of Massachusetts, University of Minnesota, University of Tennessee, and University of Maine. Our graduates have also been hired in such positions as research technician, GIS specialist, tree health survey crew member, plant health inspector, wildlife biologist, and high school instructor.

## General Education Requirements\*

ENG 101	College Composition
18 credits	Human Values & Social Context area ( <i>a single course may satisfy more than 1 sub-category, but a total of 18 credits must be completed</i> ) Western Cultural Tradition Social Context & Institutions Cultural Diversity & International Perspectives Population & the Environment Artistic & Creative Expression
2 courses	Designated Writing Intensive ( <i>1 must be within the major</i> )
2 courses	Biological or Physical Sciences ( <i>must include at least 1 laboratory course</i> )
1 course	Ethics ( <i>emphasis on discussion of ethical issues in 1 course or series of courses</i> )
6 credits	Mathematics ( <i>including statistics &amp; some computer science, only 3 credits in computer science can count toward this requirement</i> )
1 capstone	An approved experience in which the student integrates the components of his or her undergraduate training to perform at a professional level. The capstone experience is usually completed during the senior year in consultation with the student's academic advisor.

*\*All UMaine students must complete these general education requirements, which are counted in the total credit hours required for graduation and may be contained in the Major Requirements previously listed.*

## Specialized Information

Under the New England Regional Student Program, administered through the New England Board of Higher Education, the Bachelor of Science degree in Forest Ecosystem Science and Conservation is open to applicants who reside in Rhode Island for reduced tuition (in-state tuition plus 50 percent).

## Graduate Study

The School of Forest Resources offers a Doctor of Philosophy degree in Forest Resources, a Master of Science in Forest Resources and a non-thesis Master of Forestry program. All of the faculty in the School of Forest Resources are involved in active research programs and may offer research assistantships in their areas of specialty. School assistantships are also available.

### 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.