

## College of Natural Sciences, Forestry & Agriculture

### Contact

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 Web site:  
[www.forest.umaine.edu/education/wsc/index.html](http://www.forest.umaine.edu/education/wsc/index.html)

### 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
- 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

- 31 credits Wood Science & Technology
- 24 credits Forest Resources
- 21 credits Professional Electives
- 9 credits Communications (*English, writing, speech*)
- 18 credits Sciences & Mathematics
- 6 credits Business & Economics
- 18 credits General Education Requirements

*121 Minimum total credit hours required for graduation*

*See our web site (above) for a complete listing of required and elective courses.*

### Program Description

Wood Science and Technology focuses on studies ranging from "Wood Design and Craftsmanship" to "Materials Science and Engineering for our Natural Resources." Graduates are trained in the development of new wood and advanced composite products, and in traditional uses of wood to the conservation of our natural resources through technology, engineering and science principles. Understanding how to utilize the materials our forests provide in an environmentally sound, efficient manner is the goal of a Wood Science and Technology major. Our graduates have **outstanding career opportunities** in the Forest Products industries and beyond with an average **four career offers for each graduate**.

We have an excellent student to professor ratio insuring personal attention for students in the program. Our curriculum provides an in-depth, cross-disciplinary education on high-tech topics ranging from design methods for furniture and wood art, to creating the next generation of structural composites to the latest in advanced computer control and CAD technology.

Wood is the primary component of many advanced materials and students learn how to use it to create Advanced Engineered Composites. Wood Science and Technology is **THE** key to natural resource Conservation as it is the only field that provides an education for the proper use of the most widely used natural resource in crafted wood products and structural applications. Upon graduation there are outstanding, well-paid career opportunities in the Forest Products industries and beyond. Wood is by far the raw material used in the field. The weight of wood used each year exceeds the annual consumption of all metals, all plastics, and Portland cement combined. This has insured that there are many employment opportunities for those with degrees in the field of wood science and technology.

Within the Wood Science & Technology program students select curriculum concentrations that fit them best, whether it be Wood Design & Craftsmanship, Engineering, Technology, Business, or Science. Graduates also find that the education they receive in Wood Science and Technology is highly transportable to other fields because of the strength of the curriculum. Many of our undergraduate students work on student research projects at our world class Advanced Engineered Wood Composite Center (<http://www.aewc.umaine.edu>) to enhance their educational experience.

### Career Opportunities

**Plentiful, High-Tech Jobs:** The field of Wood Science and Technology has employment opportunities that far exceed the number of graduates available to fill them nationwide. **There is a 4:1 demand for graduates.** Diversified career opportunities exist in manufacturing, marketing, and technical services and research within the forest products industries, as well as in both academic and government research programs. A sample of career positions reported by graduates of our program is found on our web site, but these range from museum conservators and forest service employees, to independent craftsmen and consultants, to chief executive officers for large forest products firms.

- CEO, Colonial Craft Corp.
- Forest Products Specialist, USDA Forest Service
- Technical Director and Products Development Manager, Weyerhaeuser Corp.
- Estimator, National Lumber Co.
- Securities Analyst, Merrill-Lynch Co.
- Design Engineer, Wood Structures, Inc.

## Career Opportunities (continued)

- Technical Analyst, Fact. Mutual Insurance Co.
- Conservator, Spring Point Museum
- Technical Director, Swain Industries
- Estimator/Engineer, Wood Fabricators, Inc.

## 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

**LOW COST TUITION FOR OUT-OF-STATE STUDENTS** Under the New England Regional Student Program, administered through the New England Board of Higher Education, the Bachelor of Science degree in Wood Science and Technology is open to applicants who reside in Connecticut, Massachusetts, New Hampshire, Rhode Island or Vermont for reduced tuition (**in-state tuition plus 50 percent**).

•Many Wood Science and Technology students find employment at our Advanced Engineered Wood Composites (AEWC) Center (<http://www.aewc.umaine.edu>) and find that interactions in this **world class facility** enhance their educational experience.

## Graduate Study

Opportunities exist at the University of Maine for advanced study at the Masters and Doctoral levels in Wood Science and Technology using the Master of Science and Ph.D in Forest Resources degree programs.

### 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.