

## College of Natural Sciences, Forestry & Agriculture

### 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
- 2 Lab Science (*including 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

- 51 credits Horticulture core courses
- 9 credits Communications (*English, writing, speech*)
- 18 credits Humanities & Social Sciences
- 30 credits Sciences & Mathematics
- 12 credits Electives

*120 Minimum total credit hours required for graduation*

### Program Description

**Concentrations:** horticultural, business, landscape design, sustainable horticulture

This program is a science-based curriculum that offers students the opportunity to gain theoretical and practical knowledge in plant sciences, sustainable practices for plant production and maintenance, landscape design, landscape management, professional practices, business management, and other related areas. The program provides excellent training for the wide range of professional opportunities in the Green Industry and provides a strong background for students interested in pursuing graduate education in areas ranging from landscape architecture to the many areas of plant science. The Department also offers an M.S. degree in Horticulture.

The Environmental Horticulture curriculum offers a challenging academic experience for the serious student, requiring both synthesis and application of learned concepts. Extensive use is made of laboratory and studio activities to illustrate hands-on applications of theoretical principles. Outside the classroom, there are additional opportunities for students to gain valuable knowledge and experience.

The strong working relationship with state, national and international horticulture industry members with ties to the Environmental Horticulture program has been an important factor contributing to a nearly 100% employment record for our graduates. This Maine program has been ranked one of the best in the Northeast.

### Career Opportunities

Environmental Horticulture graduates have the opportunity to select from a wide range of job opportunities. A few examples are landscape consultant, landscape designer, grounds superintendent, golf course superintendent, garden center manager, nursery supervisor, estate gardener, public garden horticulturalist, environmental educator, horticultural writer, and entrepreneur.

### General Education Requirements\*

- ENG 101 College Composition
- 18 credits Human Values & Social Context area (*a single course may satisfy more than 1 sub-category, but a total of 18 credits must be completed*)
  - Western Cultural Tradition
  - Social Context & Institutions
  - Cultural Diversity & International Perspectives
  - Population & the Environment
  - Artistic & Creative Expression
- 2 courses Designated Writing Intensive (*1 must be within the major*)
- 2 courses Biological or Physical Sciences (*must include at least 1 laboratory course*)
- 1 course Ethics (*emphasis on discussion of ethical issues in 1 course or series of courses*)
- 6 credits Mathematics (*including statistics & some computer science, only 3 credits in computer science can count toward this requirement*)
- 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**

The Department of Plant, Soil and Environmental Sciences offers minors in; Environmental Horticulture, Plant Science, Soil Science, and Sustainable Agriculture. The minors are open to all undergraduate, degree-seeking University of Maine students and require the completion of 20-22 credit hours depending on the minor.

## **Graduate Study**

The Department of Plant, Soil and Environmental Sciences offers a Master of Science degree in Ecology and Environmental Sciences; Horticulture; and Plant, Soil and Environmental Sciences. The Doctor of Philosophy degree can be pursued through programs in Biological Sciences, Ecology and Environmental Sciences; Forest Resources; and Plant Science.

### **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.