

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 Senior Math (*recommended*)
- 2 Lab Science (*biology and 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

Bachelor of Arts

- 32 credits Biological Sciences – with emphasis in botany courses
- 19-30 credits Affiliated Science & Mathematics
- 27 credits Human Values & Social Context

Bachelor of Science

- 32 credits Biological Sciences – with emphasis in botany courses
- 31-33 credits Affiliated Science & Mathematics
- 18 credits Human Values & Social Context

120 Minimum total credit hours required for graduation

College of Natural Sciences, Forestry & Agriculture

Program Description

The program in Botany provides a rigorous background in the fundamental aspects of plant biology while allowing flexibility in planning the direction of specialization for student majors. Students plan their program in consultation with a faculty advisor and can select courses from several departments within the college (School of Biology & Ecology, Department of Biochemistry, Microbiology & Molecular Biology, Department of Plant, Soil & Environmental Sciences, Department of Wildlife Ecology, School of Marine Sciences). The emphasis of student programs can range from the molecular and cellular levels to the systematic and ecological levels.

UMaine offers students many opportunities to participate in research in faculty laboratories. These include student independent research for course credit, research for a capstone or an honors thesis, and paid work. In addition, students can hold a variety of internships off campus. The UMaine Career Center provides many resources to help students find such internships.

Career Opportunities

The program in Botany prepares students for careers as botanists, naturalists, educators, environmental consultants, lab technicians, museum workers, and for the developing plant biotechnology industry. In addition, a large percentage of graduates continue their studies in graduate school, working for the Master of Science or Doctor of Philosophy degree, a career pathway leading to university teaching and research.

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 School of Biology & Ecology offers a minor in Botany. The minor is not open to students majoring in Biology or Zoology. The minor requires completion of 22 credit hours including the courses listed below. Students must obtain a minimum grade of C in BIO 100 and BIO 200 and a minimum GPA for the minor of 2.0.

BIO 100 - Basic Biology

BIO 200 - Biology of Organisms

Any courses, at least three of which must be plant courses (P), from Biological Sciences Areas I-V in Biology B.A. and B.S. programs (some restrictions apply to students in AVS, BMB, SMS, or WLE; see catalog).

Note: Students majoring in Botany, Biology or Zoology are not eligible for a second major in one of these fields because of extensive overlap in the requirements for these degrees.

Graduate Study

Opportunities exist at the University of Maine for study at the Master of Science and Doctor of Philosophy levels in Botany, Plant Sciences, and Biological Sciences. The degrees are administered through the School of Biology & Ecology and the Graduate School. Botany graduates enter competitive Masters and Doctoral programs nationwide.

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.