

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
- 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

- 60 credits Science and Mathematics
- 18 credits Human Values & Social Context
- 36 credits Cytotechnology practicum
- OR
- 32 credits Medical technology practicum

120 Minimum total credit hours required for graduation

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.

Program Description

The School of Biology & Ecology offers two allied health professional programs – cytotechnology and medical technology. Both programs require a senior year practicum in an accredited hospital program. All coursework must be completed prior to beginning the practicum phase of the program.

Cytotechnology is a specialty area in clinical lab medicine involving the microscopic evaluation of human cells for evidence of various diseases, pre-cancerous conditions, and cancer.

Medical technology prepares students to work in diagnostic lab medicine performing the great variety of tests required by physicians in diagnosing patient illnesses, determining the prognosis of an illness, and in preventive medicine.

Career Opportunities

Cytotechnologists work primarily in medical center clinical labs or reference labs. They may teach in cytotechnology programs or become supervisors in specialty areas. Some choose to pursue graduate education in pathology, health care administration, or medical school.

Medical technologists are employed in hospital labs, clinics, doctors' offices, armed services, college/hospital-based medical technology programs, biomedical research labs, crime labs, pharmaceutical labs, technical sales, and lab management. Many elect to go on to graduate school, medical school, law school, or health care administration.

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

Cytotechnology students will participate in a senior year, 12-month practicum at Fletcher Allen Health Care School of Cytotechnology in Burlington, Vermont. Medical technology students will participate in a senior year, 12-month practicum at Eastern Maine Medical Center in Bangor, Maine.