



UNIVERSITY OF NEBRASKA AT OMAHA
Department of Biology

BACHELOR OF SCIENCE IN BIOTECHNOLOGY

The UNO Department of Biology, in cooperation with UNMC, offers an undergraduate degree program in biotechnology. This program utilizes courses taught at UNO in conjunction with a biotechnology internship experience at UNMC or other area location. For more information please contact the biotechnology advisor / Dr. Elaine Lahue at 554-3294 or the Biology Department at 554-2641.

BIOTECHNOLOGY CURRICULUM

In addition to the general requirements of the College of Arts & Sciences for graduation, the following courses are required for a B. S. in Biotechnology.

REQUIRED BIOLOGY COURSES:

Biol. 1450 Biology I	5 cr. hr.
Biol. 1750 Biology II	5 cr. hr.
Biol. 2140 Genetics	4 cr. hr.
Biol. 3020 Molecular Biology of the Cell	3 cr. hr.
Biol. 3240 Immunology	3 cr. hr.
Chem./Biol. 4650 Biochemistry I	3 cr. hr.
Chem./Biol. 4654 Biochemistry I Lab	1 cr. hr.
Biol. 4550 Biotechnology Internship	3 cr. hr.

SUPPORTING BIOTECHNOLOGY COURSES:

(Students must complete 3 of the following courses)

Biol. 4130 Molecular Genetics	4 cr. hr.
Biol. 4450 Virology	4 cr. hr.
Biol. 4640 Microbial Physiology	4 cr. hr.
Biol. 4140 Cellular Biology	4 cr. hr.
Biol. 4850 Developmental Biology	4 cr. hr.
Chem./Biol. 4660 Biochemistry II and Chem./Biol. 4664 Biochem. II Lab	4 cr. hr.

REQUIRED CHEMISTRY COURSES:

Chem. 1180 + Chem. 1184 General Chemistry I	4 cr. hr.
Chem. 1190 + Chem. 1194 General Chemistry II	4 cr. hr.
Chem. 2250 Organic Chemistry I	3 cr. hr.
Chem. 2260 Organic Chemistry II	3 cr. hr.
Chem. 2274 Organic Chemistry Laboratory	2 cr. hr.

REQUIRED PHYSICS COURSES:

Phys. 1110 (or 2110) + Phys. 1154 General Physics	5 cr. hr.
Phys. 1120 (or 2120) + Phys. 1164 General Physics	5 cr. hr.

SUPPORTING COURSEWORK IN MATHEMATICS: 9 Semester Credit Hours

To include Math 1930 (Calculus) with additional course work in statistics and computer science recommended.

REQUIRED WRITING COURSE:

Recommended courses: Biol. 3150 or Engl. 3980 or Engl. 2400	3 cr. hr.
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