

**CHEMICAL ENGINEERING DEPARTMENT
BIOLOGY/LIFE SCIENCE REQUIREMENT
November 2007**

The courses listed below have been approved as Biology/Life Science electives:

Course	Credits	Title	Prerequisites
<u>BIOLOGY</u>			
BIOLOGY 162 (no longer offered)	4	Introductory Biology	Prior or concurrent enrollment in Chem 130
BIOLOGY 172*	4	Introductory Biology – Molecular, Cellular and Developmental	Prior or concurrent enrollment in Chem 130
BIOLOGY 174	4	Introductory Molecular Biology for Engineers	Prior or concurrent enrollment in Chem 130
BIOLOGY 195 (AP)	5	Introductory Biology	Not an actual class, placeholder for AP credit
BIOLOGY 207	4	Introductory microbiology	Biol. 162 or 163 or 171 & 172 & 173 or 195 & 173 (in the past they have given overrides to ChE's with previous bio background)

*If you are a pre-health student you need to take Bio 171, 172 and the lab 173.

BIOLCHEM - Biological Chemistry - Medical School

BIOLCHEM 415 or 515	3	Intro. biochemistry	Two terms of organic chem. No credit granted to those who have completed or are enrolled in Biology 310 or 311 or BC 451/452.
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CEE – Civil and Environmental Engineering

CEE 582 (fall semester)	3	Environmental Microbiology	Chem 130. No previous biology experience expected.
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The following courses also fulfill the requirement, but officially have prerequisites of Biology 162 (or 171 and 172:

Biology 310, Introductory biochemistry (4 cr.)
Biology 311, Introductory biochemistry (4 cr.)
Chemistry 451, Introductory biochemistry (4 cr.)

Fulfilling the biology/life science requirement at another school:

To check whether a course at another school has already been approved as fulfilling this requirement, check the College of Engineering's course equivalency database:

www.engin.umich.edu/transferdatabase

or the LSA Transfer database webpage:

www.lsa.umich.edu/lsa/students/req_conversion/

Courses that have been approved as fulfilling our bio/life science elective are labeled as such in the engineering database.

Courses not listed on these databases need the approval of Dr. Montgomery to be used to fulfill this requirement. A good starting point is the course that is the prerequisite for biochemistry.

Check web for updates at <http://www.engin.umich.edu/dept/cheme/ugoffice/ugprog.html>