

## CHEMICAL ENGINEERING DEPARTMENT BIOLOGY / LIFE SCIENCE REQUIREMENT

August 2018

The courses listed below fulfill the Biology / Life Science elective requirement:

Course	Credits	Title	Prerequisites
BIOLOGY 172*	4	Introductory Biology – Molecular, Cellular and Developmental	Prior or concurrent enrollment in Chem 130
BIOLOGY 174*	4	Introduction to Cell and Molecular Biology	Prior or concurrent enrollment in Chem 130
BIOLOGY 195 (AP)	5	Introductory Biology	Not an actual class, placeholder for AP credit

**Only students who have Biology 100 AP credit can fulfill the biology / life science requirement using the courses listed below:**

BIOLCHEM 415 + BIO 100 AP CREDIT	3	Intro. Biochemistry	Two terms of organic chem. No credit granted to those who have completed or are enrolled in MCDB 310 or 311, Chem 451, Biolchem 451.
CEE 482 + BIO 100 AP CREDIT	3	Environmental Microbiology	Chem 130. No previous biology experience expected.
ChE 574 + BIO 100 AP CREDIT	3	Engineering Principles in Drug Delivery and Targeting	Senior or graduate standing.
Chem 351+ BIO 100 AP CREDIT	4	Fundamentals of Biochemistry	Completion of BIOLOGY 172 or equivalent; CHEM 210 and completion or concurrent in CHEM 215.

### **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's transfer database at [www.engin.umich.edu/equivalencies](http://www.engin.umich.edu/equivalencies). Approved courses have a notation of "Fulfills ChE Biology/LifeSci Requirement." If no such course has been approved at a given school, check for a biology course for science majors that covers cell and genetics, typically the prerequisite for biochemistry, then contact Dr. Montgomery at [smontgom@umich.edu](mailto:smontgom@umich.edu) for her approval.

Note that courses that fulfill the ChE Biology / Life Science requirement are not automatically a match for Biology 172. If you seek a match for Biology 172 specifically, you must get your course evaluated by the biology department by following the process at <https://lsa.umich.edu/biology/undergraduates/transfer-credit.html>. A course that is approved as a match for Biology 172 by the biology department will automatically fulfill the ChE biology/life science requirement.

*Check web for updates at [che.engin.umich.edu/undergraduate/requirements](http://che.engin.umich.edu/undergraduate/requirements)*