

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

2022-2023

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 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.
ChE 584 (BioMedE 584) (BioMat 584) + BIO 100 AP CREDIT	3	Tissue Engineering	BIOLOGY 310 or 311, ChE 517, or equivalent biology course; senior standing
ChE 696-002 + BIO 100 AP CREDIT	3	Principles and Predictions of Drug Distribution: From Small Molecules to Biologics and Nanoparticles	Permission of instructor
MICROBIOL 440 + BIO 100 AP CREDIT	3	Human Immunology	

Fulfilling the biology / life science requirement at another school:

To check whether a course at another school has already been approved as a transfer equivalent to Biology 172, check the college's transfer database at <https://transfercredit.ugadmiss.umich.edu/>.

If you do not find an equivalent, please refer to the [Guidelines for Transfer Credit Approval](#) webpage. As described under "****For evaluation requests within BIOLOGY, EEB, OR MCDB", students will need to work directly with the Biology Department to have a course evaluated and approved as a match for Biology 172.

Check web for updates at che.engin.umich.edu/undergraduate/requirements