

APPROVED MATH/BIO/CHEM/PHYSICS ELECTIVES

Each student must complete three semester hours of upper-division coursework in mathematics, biology, chemistry or physics. The following courses may be used to fulfill this requirement. Additional courses may be approved by the ChE undergraduate faculty advisor. Approval must be received prior to registering for the course.

Mathematics

M 325K	Discrete Mathematics
M 427L	Advanced Calculus for Applications II
M 333L	Structure of Modern Geometry
M 340L	Matrices and Matrix Calculations
M 360M	Mathematics as Problem Solving
M 361	Theory of Functions of a Complex Variable
M 362K	Probability I
M 364K	Vector and Tensor Analysis I

Biology

BIO 320	Cell Biology
BIO 325	Genetics
BIO 226R	General Microbiology: Microbial Cell Structure and Genetics
BIO 226S	General Microbiology: Microbial Physiology and Ecology
BIO 339	Metabolism and Biochemistry of Microorganisms
BIO 365R	Vertebrate Physiology I
BIO 365S	Vertebrate Physiology II

Chemistry

CH 339K	Biochemistry I
CH 339L	Biochemistry II
CH 354	Quantum Chemistry and Spectroscopy
CH 354L	Physical Chemistry II
CH 367L	Macromolecular Chemistry
CH 369	Fundamentals of Biochemistry
CH 370	Physical Methods for Biochemistry

Physics

PHY 329	Introduction to Computational Physics
PHY 336K	Classical Dynamics I
PHY 338K	Electronic Techniques
PHY 352K	Classical Electrodynamics
PHY 355	Modern Physics for Engineers