2016-18 APPROVED MATH/BIO/BCH/CH/PHYSICS ELECTIVES

Each student must complete three semester hours of upper-division coursework in mathematics, biology, biochemistry, chemistry or physics. The following courses may be used to fulfill this requirement. Additional courses may be approved by the ChE Undergraduate Faculty Advisor. The course must be approved prior to registering for the course. Courses that may NOT count towards this elective include SEEK or UTEACH.

NOTE: Courses are subject to availability and prerequisites as determined by each department.

Mathematics
M325K     Discrete Mathematics
M427L     Advanced Calculus for Applications II
M333L     Structure of Modern Geometry
M360M     Mathematics as Problem Solving
M361      Theory of Functions of a Complex Variable
M362K     Probability I
M364K     Vector and Tensor Analysis I

Biology
BIO 320     Cell Biology
BIO 325     Genetics
BI0226R    General Microbiology: Microbial Cell Structure and Genetics
BIO226S    General Microbiology: Microbial Physiology and Ecology
BIO 339     Metabolism and Biochemistry of Microorganisms
BIO 365R    Vertebrate Physiology I
BIO 365S    Vertebrate Physiology II

Biochemistry
BCH 339F    Foundations of Biochemistry
BCH 339L    Chemical and Synthetic Biology
BCH339M    Structure & Funct of Mol Machines
BCH339N    Systems Bio & Bioinformatics
BCH 369    Fundamentals of Biochemistry (formerly CH 369)
BCH 370    Physical Methods of Biochem

Chemistry
CH339K     Biochemistry I
CH339L     Biochemistry II
CH354      Quantum Chemistry and Spectroscopy
CH354L     Physical Chemistry II
CH367L     Macromolecular Chemistry
CH369      Fundamentals of Biochemistry
CH370      Physical Methods for Biochemistry
CH371K     Science Outreach in Elem School

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