## APPROVED MATH/BIO/BCH/CH/PY/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
- M340L: Matrices and Matrix Calculations
- 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
- BIO226R: 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)
- BCH370: 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