

Science/Engineering Electives

This list is current as of June 11, 2007.

Students are responsible for ALL prerequisites. Check the current General Catalog for prerequisite information.

BC 351 - Principles of Biochemistry

BIOM306 - Bioprocess Engineering (also listed as BIOM 306)

BIOM470 - Biochemical Engineering (cannot be used as both a Science & Engineering Elective and a Sr. Technical Elective)

BMS 300 - Principles of Anatomy & Physiology

BMS 301 - Human Gross Anatomy

BMS 325 - Cellular Neurobiology

BMS 345 - Functional Neuroanatomy

BIO 310 - Cell Biology

CHEM112 – General Chemistry Lab I

CHEM245 - Fundamentals of Organic Chemistry

CHEM246 - Fundamentals of Organic Chemistry Lab

CHEM345 - Organic Chemistry I

CIVE260 – Engineering Mechanics - Statics

CS122 – Theory for Introductory Programming (for ECE students who took CS153 not CS160 and want to take CS161, this course is co-requisite for CS161)

CS155 - Intro. To Unix*

CS156 - Intro. To C Prog.* I

CS157 - Intro. To C Prog.* II

CS160 – Foundations In Programming*

CS161 – Object Oriented Problem Solving

CS200 - Algorithms & Data Structures

Students MUST take either CS155, 156 and 157 OR CS160 as part of their regular requirements. If you choose to take all of these, CS160 counts toward regular requirements, and 155, 156 and 157 are used as Science/Engineering elective credits.

HES307 - Biomechanical Principles of Human Movement

LIFE 103 - Biology of Organisms - Animals & Plants

MATH151 – Mathematical Algorithms in Matlab

MATH229 - Matrices & Linear Equations

MATH332 - Partial Differential Equations

MATH450 - Intro Numerical Analysis. I

MATH451 - Intro Numerical Analysis. II

MATH366 - Abstract Algebra

MATH369 - Linear Algebra

MIP 300 - General Microbiology

MECH237 - Intro to Thermal Science

MECH337 - Thermodynamics

PH314 - Modern Physics

PH315 - Modern Physics Lab (must also take or have taken PH314)

PH341 - Mechanics

PH353 - Optics & Waves

PH451-Intro. Quantum Mechanics I

PH452-Intro. Quantum Mechanics II

For students entering the Lasers & Optical Engineering concentration Fall 2007 or later, PH314 and PH451 cannot be used as electives.

Students in the Lasers & Optical Engineering concentration cannot use PH353 as an elective.