Engineering Physics, B.S. (EPHY) Major

School of Arts and Sciences - Department of Chemistry and Physics

Requirements List for 2012-2013

___ BIBL 1033 Biblical Literature
___ BIBL 1043 Biblical Foundations For Living
___ BIBL Jr.-Sr. Level Elective (3 hours)
___ BIBL Jr.-Sr. Level Elective (3 hours)
___ CHEM 1111 General Chemistry I Lab
___ CHEM 1113 General Chemistry I
___ CHEM 1121 General Chemistry II Lab (Spring only)
___ CHEM 1123 General Chemistry II (Spring only)
___ COMM 1113 Intro. To Speech Communication
___ COSC 1303 Computer Science I
___ EEGR 2051 Circuits and Measurements Lab
___ EEGR 2053 Electric Circuits
___ EEGR 3213 Digital Electronics
___ EEGR 4254 Fields and Applied Communications (Spring only)
___ ENGL 1013 English Composition I
___ ENGL 1023 English Composition II
___ ENGL Literature Elective (3 hours)
___ HIST History Elective (3 hours)
___ KINE Physical Activities (1 hour)
___ KINE 1512 Concepts Of Lifetime Fitness
___ LETU 1101 Cornerstones Of Life And Learning
___ MATH 1903 Calculus I
___ MATH 2013 Calculus II
___ MATH 2023 Calculus III
___ MATH 2203 Differential Equations
___ MATH 3303 Linear Algebra
___ MEGR 2013 Statics
___ MEGR 2023 Dynamics
___ MEGR 3204 Fluid Mechanics and Heat Transfer (Spring only)
___ MEGR 3714 Fundamental and Applied Thermodynamics (1)
___ PHYS 2011 University Physics I Lab (Spring only)
___ PHYS 2013 University Physics I (Spring only)
___ PHYS 2021 University Physics II Lab (Fall only)
___ PHYS 2023 University Physics II (Fall only)
___ PHYS 3214 Relativity and Quantum Theory (Spring, Odd years only)
___ PHYS 3323 Atoms, Nuclei, and Particles (Fall, Odd years only)
___ PHYS 3951 Intro. To Research (Spring only)
___ PHYS 4113 Advanced Mechanics (Fall, Even years only)
___ PHYS 4253 Advanced Quantum Mechanics (Fall, Odd years only)
___ PHYS 4414 Optics (Spring, Even years only)
___ PHYS 4811 Senior Science and Christian Faith Seminar (Spring only)
___ PHYS 4951 Undergraduate Research
___ PHYS 4951 Undergraduate Research
___ General Elective (3 hours)
___ General Elective (3 hours)
___ General Elective (3 hours)
___ General Elective (3 hours)
___ General Elective (3 hours)
___ Fulfill English Proficiency Requirement (0 hours)

Total hours: 126

Notes:
The Science or Engineering Elective is any 3000 or 4000 level course in Chemistry, Physics, or Engineering for which the prerequisites have been met.

1: This course may be replaced by CHEM 4113 Physical Chemistry I and CHEM4111 Physical Chemistry I Lab.