FOUR YEAR TEMPLATE PHYSICS - B.S. (Nanofabrication)

*One summer semester (18 credits) at Penn State Center for Nanotechnology Education and Utilization is required

FIRST YEAR

First Semester

MAT 211 Calculus I

PHY 107 Freshman Seminar Physics I

Category B Course

Communication

ENG 106 Writing Intensive First Year Seminar

HIS 105 Historical Found. Of Global Cultures

Second Semester

MAT 212 Calculus II

PHY 221 Fundamental Physics I

HCS 100 Intro. To Human

HIS 106 Thinking Historical Global Age

SOPHOMORE YEAR

First Semester

MAT 213 Calculus III

Techniques

MAT 322 Differential Equations PHY 222 Fundamental Physics II

Category E Course

Second Semester

PHY 301 Math and Numerical

PHY 311 Quantum I

Category D Course

CSC 110 Computer Science I/CSC

106 Lab

JUNIOR YEAR

First Semester

CHM 121 Chemical Bonding

CHM 125 Lab IB

PHY 321 Electricity and Magnetism I

Category B Course

PHY 331 Mechanics I

Second Semester

PHY 341 Classical and Statistical

Thermo

PHY 325 Semiconductor Devices

CHM 122 Chemical Dynamics

CHM 126 Lab IIB

Category C Course

SENIOR YEAR

First Semester

Category B Course

PHY 450 Quantum Materials

Category D Course

Category E Course