INTRODUCTORY REQUIREMENTS

Calculus:  
MATH 19A (FWS) ___ OR 20A (F) ___  
MATH 19B (FWS) ___ OR 20B (W) ___  
MATH 23A (FWS) ___

Advanced Calculus:  
MATH 23B (FWS) ___ OR PHYS 14 (*) ___

Chemistry:  
CHEM 1A (FW) ___

Physics:  
PHYS 5A/L (F) ___ + 5B/M (W) ___ + 5C/N (S) ___ + 5D (F) ___

Programming in C++:  
CMPS 5C (F) ___

ADVANCED REQUIREMENTS 16 total

Modern Physics:  
PHYS 101A Introduction to Modern Physics I (F) ___  
PHYS 101B Introduction to Modern Physics II (W) ___

Mechanics:  
PHYS 105 Mechanics (F) ___

Electricity/Magnetism/Optics:  
PHYS 110A Electricity, Magnetism, and Optics (W) ___  
PHYS 110B Electricity, Magnetism, and Optics (S) ___

Thermodynamics:  
PHYS 112 Thermodynamics and Statistical Mechanics (W) ___

Math Methods:  
PHYS 116A Mathematical Methods in Physics (W) ___  
PHYS 116B Mathematical Methods in Physics (S) ___  
PHYS 116C Mathematical Methods in Physics (F) ___

Electives:  THREE from the following...

PHYS 107 Introduction to Fluid Dynamics (W) ___
PHYS 109 Optics (*) ___
PHYS 115 Computational Physics (S) ___
PHYS 152 Optoelectronics (*) ___
PHYS 155 Solid State Physics (W) ___
PHYS 156 Applications of Solid State Physics (S) ___
PHYS 160 Practical Electronics (S) ___
EE 103 Signals and Systems (FS) ___
EE 127 Systems Design I (*) ___
EE 128 Systems Design II (*) ___
EE 145 Properties of Materials (F) ___

NOTE: Electives may be chosen from courses in other science  
and engineering departments in discussion with a faculty advisor.

Laboratories:  
PHYS 133 Intermediate Laboratory (W) ___  
PHYS 134 Physics Advanced Laboratory (WS) ___

COMPREHENSIVE REQUIREMENT

Senior Thesis Research:  
PHYS 195A (F) ___ + PHYS 195B (W) ___
Senior Thesis on an applied physics topic ___