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 (*) ___

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

Programming in C++: CMPS 5C (F) ___ OR EART 119 (W) ___ OR PHYS 115 (S) ___

ADVANCED REQUIREMENTS 14 total including 2 labs

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) ___

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

Quantum Mechanics: PHYS 139A Quantum Mechanics (S) ___

Topical Electives: ONE from the following...
PHYS 129 Nuclear and Partical Physics (W) ___
PHYS 139B Quantum Mechanics (F) ___
PHYS 155 Solid State Physics (W) ___
PHYS 171 General Relativity, Black Holes, and Cosmology (F) ___

General Electives: ONE from the following...
Any PHYS course from 100-171 ___
ASTR 111 Order of Magnitude Astrophysics (F) ___
ASTR 112 Physics of Stars (W) ___
ASTR 113 Physical Cosmology (S) ___
ASTR 117 High Energy Astrophysics (*) ___
ASTR 118 Physics of Planetary Systems (*) ___

COMPREHENSIVE REQUIREMENT
Senior Thesis Research: PHYS 195A (F) ___ + PHYS 195B (W) ___
Senior Thesis on topic of choice ___