INTRODUCTORY REQUIREMENTS

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

Vector Calculus: MATH 23A (FWS) ___ AND MATH 23B (FWS) ___

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

NOTE: To declare Physics as a major, PHYS 5ABC must be completed with a GPA of 2.7 or higher

Computer Programming: CMS 5C (*) ___ OR 5J (FWS) ___ OR 5P (WS) ___ OR ASTR 119 (WS) ___ OR PHYS 115 (S) ___

ADDITIONAL REQUIREMENTS 14 courses and a senior thesis

Modern Physics: PHYS 102 Modern Physics (FW) ___
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 (FW) ___
PHYS 134 Physics Advanced Laboratory (WS) ___
Quantum Mechanics: PHYS 139A Quantum Mechanics (S) ___

General Electives: TWO from the following...
Any PHYS course from 100-180 ___
ASTR 111 Order-of-Magnitude Astrophysics (F) ___
ASTR 112 Physics of Stars (W) ___
ASTR 113 Introduction to Cosmology (W) ___
ASTR 117 High Energy Astrophysics (*) ___
ASTR 118 Physics of Planetary Systems (S) ___

*In some cases, the elective requirement may be satisfied by an approved upper-division science or engineering course.

DISCIPLINARY COMMUNICATION REQUIREMENT
Satisfied by successful completion of PHYS 182 and the senior thesis.

NOTE: This requirement MUST be completed at UCSC.

COMPREHENSIVE REQUIREMENT
PHYS 182 Scientific Communication for Physicists (FW) ___
Senior Thesis on topic of choice ___

Note: Courses appearing in more than one category may fulfill only one requirement.