INTRODUCTORY REQUIREMENTS

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

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

Chemistry:  CHEM 1A (FWS) ___ OR 1B (FWS) ___

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

NOTE: To declare Applied Physics as a major, PHYS SABC must be completed with a GPA of 2.7 or higher.

ADVANCED REQUIREMENTS 14 courses and a senior thesis

Modern Physics:  PHYS 102 Modern Physics (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...
           AMS 107/PHYS 107 Introduction to Fluid Dynamics (F) ___
           PHYS 115 Computational Physics (S) ___
           PHYS 120 Polymer Physics (*) ___
           PHYS 129 Nuclear and Particle Astrophysics (W) ___
           PHYS 139A Quantum Mechanics (S) ___
           PHYS 139B Quantum Mechanics (F) ___
           PHYS 152 Optoelectronics (*) ___
           PHYS 155 Solid State Physics (W) ___
           PHYS 156 Applications of Solid State Physics (S) ___
           PHYS 160 Practical Electronics (S) ___
           PHYS 171 General Relativity, Black Holes and Cosmology (F) ___
           PHYS 180 Biophysics (S) ___
           EE 101/L Introduction to Electronic Circuits (FW) ___
           EE 103 Signals and Systems (FS) ___
           EE 115 Intro to Micro-Electro-Mechanical-Systems Design (*) ___
           EE 130 Introduction to Optoelectronics and Photonics (F) ___
           EE 145 Properties of Materials (F) ___
           EE 154 Feedback Control Systems (F) ___
           EE 171 Analog Electronics (S) ___
           EE 172 Advanced Analog Circuits (*) ___
           EE 178 Device Electronics (*) ___

NOTE: Other courses may be used to satisfy the elective requirement with approval from a faculty advisor.

Intermediate Laboratory:  PHYS 133 Intermediate Laboratory (FW) ___

Advanced Laboratory:  PHYS 134 Physics Advanced Laboratory (WS) ___

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 an applied physics topic ___

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