INTRODUCTORY REQUIREMENTS

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

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

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

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

Statistics: AMS 5 (FWS) ___ OR AMS 7/L (FWS) ___

Astronomy: ASTR 12 (W) ___ OR ASTR 13 (F) ___

Education: EDUC 50B (FW) ___ OR EDUC 50C (FW) ___

ADVANCED REQUIREMENTS 11 total including 2 labs

Mathematics: MATH 100 Introduction to Proof and Problem Solving (FWS) ___
MATH 128A Classical Geometry: Euclidean and Non-Euclidean (S) ___
MATH 181 History of Mathematics (W) ___

Physics: PHYS 102 Modern Physics (FW) ___
PHYS 133 Intermediate Laboratory (FW) ___

Adv Laboratories: ONE from the following...
PHYS 134 Physics Advanced Laboratory (WS)
PHYS 135 Astrophysics Advanced Laboratory: PHYS 135A (F) ___ + PHYS 1 ___

Education: One from the following...
EDUC 100B CAL Teach 2: Mathematics (S) ___
EDUC 100C CAL Teach 2: Science (S) ___

Intro Teaching: EDUC 185L CAL Teach 3 (S) ___

Teaching: One from the following...
EDUC 185B Introduction to Teaching Mathematics (W) ___
EDUC 185C Introduction to Teaching Science (S) ___

Diversity: ONE from the following...
EDUC 128 Immigrants & Education (F) ___
EDUC 141 Bilingualism & Schooling (W) ___
EDUC 164 Urban Education (S) ___
EDUC 177 Teaching Diverse Students Math & Science (F) ___
EDUC 181 Race, Class, & Culture in Education (W) ___

Electives: ONE from the following...
Any PHYS courses numbered above 100 ___
Any MATH courses numbered above 100 ___
Any ASTR courses numbered above 100 ___
Any EDUC courses numbered above 100 ___

DISCIPLINARY COMMUNICATION REQUIREMENT
Satisfied by the 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 ___

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