INTRODUCTORY REQUIREMENTS

Mathematics:
- 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 (F) ___ + 5B/M (W) ___ + 5C/N (S) ___ + 5D (F) ___

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

Astronomy:
- ASTR 12 (F) ___ OR ASTR 13 (*) ___

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 (W) ___
- 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 135B (W) ___

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 (W) ___

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.