PHYSICS EDUCATION B.S. 2013/14

Name: ___________________________ Date: ___________________________

(Quarter offered: F=Fall, W=Winter, S=Spring, * = Not offered this year)

Remember: All courses on the check list must be taken for a letter grade.

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

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 (F) ___ + 5B/M (W) ___ + 5C/N (S) ___ + 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 (S) ___

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

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 (F) ___
        MATH 181 History of Mathematics (W) ___

Physics: PHYS 101A Introduction to Modern Physics I (F) ___
        PHYS 101B Introduction to Modern Physics II (W) ___
        PHYS 133 Intermediate Laboratory (FW) ___

Adv Laboratories: One from the following...
        PHYS 134 Physics Advanced Laboratory (WS) ___
        ASTR 135 Astrophysics Advanced Laboratory: ASTR 135A (F) ___ + ASTR 135B (W) ___

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

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

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 (S) ___
        EDUC 141 Bilingualism & Schooling (W) ___
        EDUC 164 Urban Education (F) ___
        EDUC 177 Teaching Diverse Students Math & Science (W) ___
        EDUC 181 Race, Class, & Culture in Education (F) ___

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 ___

COMPREHENSIVE REQUIREMENT

Senior Thesis ___

Note: Students satisfy this requirement by successfully completing Physics 182 and the senior thesis. The DC requirement MUST be completed at UCSC.