EARTH SCIENCES  B.S. with Science Education concentration

Name: ____________________________ Date: ____________________________

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

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

INTRODUCTORY REQUIREMENTS

Calculus:  MATH 11A (FWS) + 11B (FWS)
OR  MATH 19A (FWS) + 19B (FWS) OR AMS 15A (W) 15B (S)

Chemistry: CHEM 1A (FWS) + CHEM 1B/M (FWS) + CHEM 1C/N (FWS)

Biology: BIOL 20A (FWS)
BIOL 20B (FWS)
BIOL 20C (FWS)

Geology: One from the following...
EART 5/L California Geology (preferred) (F) (strongly recommended)
EART 10/L Geological Principles (S)
EART 20/L Environmental Geology (W)

Physics: PHYS 6A/L (FWS) + PHYS 6B/M (WS)

Astronomy: ASTR 2 Overview of the Universe (FW) (recommended)

Advanced Math: ONE from the following...
AMS 5 Statistics (FWS)
EART 111 Mathematics in Earth Sciences (F)
MATH 21 Linear Algebra (FWS)
MATH 22 Calculus of Several Variables (WS)

Education: EDUC 50C Cal Teach 1: Science (2 units) (FW)

ADVANCED REQUIREMENTS

Earth Science: EART 110A/L Evolution of the Earth (F)
EART 110B/M Earth as a Chemical System (W)
EART 109/L Elements of Field Geology (FS) OR BOTH EART 120/L (S) +
EART 150/L (F)

Ocean Science: OCEA 102 Oceans and Climates: Past, Present, and Future (*)

Education: EDUC 100C Cal Teach 2: Science (2 units) 2 (S)
EDUC 185C Introduction to Teaching Science (W)
EDUC 185L Introduction to Teaching: Cal Teach 3 (3 units) (W)

Science Elective: ONE upper-division EART or OCEA course

Laboratory: ONE upper-division course in EART or OCEA that requires a 1 or 2 unit lab

Education Elective: ONE from the following...
EDUC 128 Immigrants and Education (F)
EDUC 141 Bilingualism and Schooling (S)
EDUC 164 Urban Education (W)
EDUC 181 Race, Class, and Culture in Education (F)

COMPREHENSIVE REQUIREMENT

EDUC 194F Group Projects (2 units) (*)