GEOLOGICAL SCIENCES MAJOR, B.S. – 2002-2003
Paleobiology Emphasis

An initial consultation with a departmental advisor is essential before embarking on the major.

PREPARATION FOR THE MAJOR
(A grade of C- or better is required in all courses in the major preparation.)
Math 3A-B or 34A-B ................................................................. 8
One course from: EEMB 30, PSTAT 5A, Psychology 5 ................................................................. 4-5
Chemistry 1A-AL-B-C-CL ........................................................... 12
Physics 6A-AL-B-C-CL ........................................................... 12
MCDB 1A-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L ............................................... 15
Geology 2, 3, and 14 .................................................................. 11
Recommended courses: Geology 18; for students planning to pursue paleobotany, EEMB 21 is strongly recommended.

UPPER-DIVISION MAJOR:
At least 53 UD units are required, distributed as follows:
A. Geology 103, 104A-B, 111-111L .................................................. 17
B. Geology 118 or 119, or other field course by petition .................................................. 6-12
C. EEMB 120 (Ecology) ...................................................................... 4
D. Geology 121 or EEMB 131 (Evolution) ............................................... 4
E. Two courses from the following: .................................................. 8
   • Geology 116 (Pre-Phanerozoic biogeology)
   • Geology 141 (Plant paleobiology)
   • Geology 148 (Vertebrate paleontology)
   • Geology 149 (Mammalia Evolution)
   • Geology 162 (Marine micropaleontology & paleobiology)
F. Three additional courses normally chosen from the following list, in consultation with an advisor
   One course must be in Geology .................................................. 8-14
   Anthropology 105 (Human variation), 151 (Fossil evidence for human evolution), 153T (Primate behavioral ecology), 180A-B (Faunal analysis).
   EEMB 103A-B (California flora), 106 (Biology of Fishes), 107 (Amphibians and reptiles), 108 (Vertebrate evolutionary morphology), 112 (Invertebrate zoology), 114 (Biology of Plants), 115 (Plant anatomy), 116 (Higher invertebrates), 140 (Plant ecology), 147 (Coral reefs), 150 (Biological oceanography), 161 (Size in biology)
   Geography 167 (Biogeography), 170 (Vegetation analysis)
   Geology 122, 143, 157, 161, 162, 163, 164B-C, 167, 189, 190 or additional courses from Area E, above
G. Two units of Geology 160 .......................................................... 2
H. Additional upper-division geology electives to bring the unit total to 53 ........................................... 0-4

Note: Students are encouraged to consider a senior research project in paleobiology (Geology 199).
In addition, every student must be certified for Technical Writing Competence, which is usually done in
Geology 104A; see department. Writing 109ST is highly recommended.

MAJOR REGULATIONS
PREREQUISITES..........Check the General Catalog for the prerequisites to all listed courses.
P/NP GRADING OPTION Not allowed for any major course (Prep or UD major), including courses applied to the major from other
departments, except for up to 3 units of Geology 160.
SUBSTITUTIONS............In the major requirements permissible only by petition to the department chair and dean.
RESIDENCE REQUIREMENTS At least 20 UD units in major while in residence at UCSB.
G.P.A. REQUIREMENTS At least 2.0 overall average in a) all UD major courses; and b) all major courses (Prep and UD) in UC.
DOUBLE MAJORS............With the approval of each department chairperson, up to a total of 8 units may be applied
simultaneously to both UD majors.