GEOLOGICAL SCIENCES MAJOR, B.S. – 2005-2006
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.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 3A-B or 34A-B</td>
<td>8</td>
</tr>
<tr>
<td>One course from: EEMB 30, PSTAT 5A, Psychology</td>
<td>4-5</td>
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<tr>
<td>Chemistry 1A-AL-B-BL-C-CL</td>
<td>12</td>
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<tr>
<td>Physics 6A-AL-B-BL-C-CL</td>
<td>12</td>
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<tr>
<td>MCDB 1A-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L</td>
<td>15</td>
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<tr>
<td>Geology 2, 3, and 14</td>
<td>11</td>
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Recommended: Geology 18

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 149 (Mammalia Evolution)                                 |       
   • Geology 141 (Plant paleobiology)                                 |       
   • Geology 148 (Vertebrate paleontology)                            |       
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), 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, 157, 159B 161, 162, 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 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 major courses (prep or UD major), including courses applied to the major from other departments, except for 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 UC average in all upper-division major courses and all courses (Prep and UD) for the major.

DOUBLE MAJORS ...............................With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.