**GEOLOGICAL SCIENCES DEPARTMENT**

1006 WEBB HALL--PHONE: 893-4831
College of Letters and Science
University of California, Santa Barbara

**GEOLOGICAL SCIENCES MAJOR, B.S. – 2003-2004**

**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 5</td>
<td>4-5</td>
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<tr>
<td>Chemistry 1A-AL-B-CL</td>
<td>12</td>
</tr>
<tr>
<td>Physics 6A-AL-B-BL-CL</td>
<td>12</td>
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<tr>
<td>MCD 1A-1AL-1B, EEMB 2-3-3L, and either MCD 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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</tbody>
</table>

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:

- 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.