PHARMACOLOGY MAJOR, B.S. – 2019-2020

To be admitted to full major status, students must fulfill the pre-biology course and grade-point average requirements as described in the General Catalog and Pre-Biological Sciences Major Sheet. At a minimum, they must complete twelve designated courses from the Preparation for the Major with a 2.0 or higher UC grade-point average. Grades earned must meet grade prerequisites for the full major.

Note: Hyphens indicate that an entire sequence must be completed as shown to fulfill an area requirement.

PREPARATION FOR THE MAJOR

<table>
<thead>
<tr>
<th>COURSE DESCRIPTION</th>
<th>UNITS YET TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-AL-BL-C-CL (or 2A-AC-B-BC-C-CC)</td>
<td>15</td>
</tr>
<tr>
<td>MCDB 1A-B, EEMB 2-3 and either (MCDB 1AL, and MCDB 1BL or EEMB 2L, and EEMB 3L) or (MCDB 1LL and EEMB 2LL)</td>
<td>16</td>
</tr>
<tr>
<td>(Transfer students must consult the advisor regarding selected topics to be covered in Z courses)</td>
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<tr>
<td>Chemistry 6AL-6BL (or 6BH) and 109A-B-C or 109AH-BH-CH</td>
<td>18</td>
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<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
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<tr>
<td>One of the following: PSTAT 5LS or 5A or Math 4A or Psychology 5</td>
<td>4 or 5</td>
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<tr>
<td>Physics 6A-AL-BL-C-CL</td>
<td>12</td>
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</table>

UPPER-DIVISION MAJOR

48 UD units required, distributed as follows: 48

I. A. Pharmacology: MCDB 126A-AL-BL-C

B. Biochemistry: MCDB 108A (or W 108A) and 108B

C. Genetics: MCDB 101A-B

D. Human Physiology: MCDB 111*

E. Pharmacology Colloquia: MCDB 187

II. Additional units from the following to bring the total upper-division units in the major to 48

Note: A minimum of 32 UD units must be completed through courses within the MCDB department. Instructor approval required prior to enrollment in psychology courses.


A maximum of 4 units of MCDB 185-199 can be applied. BMSE may be accepted by petition only. *It is highly recommended that students take MCDB 111 (Physiology) and Writing 109ST (Writing for Science and Technology) prior to enrolling in the MCDB 126A-AL-BL courses. Students are encouraged to select their elective courses from within one of these tracks:


2. Biochemical Pharmacology: MCDB 108AL, 109L, 145; Chemistry 161, 162A, 162B

3. Neurobiology and Behavior: MCDB 151, 152, 153; Psychology 115, 133, 137

4. Physiology and Development: MCDB 112, 112L, 151, 152, 153; EEMB 111, 154, 156

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), including courses applied to the major from other departments, except up to 4 units of courses that do not allow letter grades.

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.