MATHEMATICS MAJOR, B.A. – 2020-2021

To be admitted to full major status, students must complete the following pre-major Mathematics courses with a UC grade-point average of 2.5 or higher. All pre-major courses must be completed with a grade of “C” or higher. Preparation courses are excluded from the pre-major GPA, but will apply to the overall major GPA. Entry into the pre-major does not guarantee admission to full major status. While completing required preparation, students are classified as pre-majors.

PRE-MAJOR

<table>
<thead>
<tr>
<th>COURSES TAKEN:</th>
<th>UNITS YET TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 2A-B or 3A-B</td>
<td>8-10</td>
</tr>
<tr>
<td>Math 4A-B</td>
<td>8</td>
</tr>
<tr>
<td>Math 8*</td>
<td>5</td>
</tr>
</tbody>
</table>

*Note: Either Math 4A, 4B, 6A, or 6B must be completed with a grade of “B” or better in order to take Math 8.  
Note: Math 6A is a prerequisite for several UD mathematics courses. See the General Catalog.

PREPARATION FOR THE MAJOR

One course from Computer Science 8, 16 or Engineering 3 ................................................................. 3-4
Physics 1, 6A, or 21 ......................................................................................................................... 3-4

UPPER-DIVISION MAJOR

40 UD units are required, at least 28 of which must be in Mathematics. These units must be distributed as follows:

CONCENTRATION I or II below:

CONCENTRATION I:  

<table>
<thead>
<tr>
<th>COURSES TAKEN:</th>
<th>UNITS YET TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 108A</td>
<td>4</td>
</tr>
</tbody>
</table>

At least 12 units of upper-division
Math or PSTAT electives 12-16

COURSES TAKEN:_____________________________________________________

CONCENTRATION II: High School Teaching

<table>
<thead>
<tr>
<th>COURSES TAKEN:</th>
<th>UNITS YET TO COMPLETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 101A-B</td>
<td>8</td>
</tr>
<tr>
<td>Math 102A-B</td>
<td>8</td>
</tr>
<tr>
<td>Math 182</td>
<td>4</td>
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<tr>
<td>PSTAT 120A-B</td>
<td>8</td>
</tr>
</tbody>
</table>

12 units of upper-division
Math or PSTAT electives 12

COURSES TAKEN:_____________________________________________________

Note: The following courses will not apply to the major: Math 100A-B, 193, 195A-B; PSTAT 109, 193.

(With an advisor’s approval, 4 of the 40 UD units may be non-mathematics courses taken as part of a coherent mathematics program.)

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.
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.