APPLIED MATHEMATICS MAJOR, B.S. – 2023-2024

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 and Computer Science 8, 16 or Engineering 3 must be completed with a grade of “C” or better. Preparation Courses are excluded from 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>Course Description</th>
<th>Units 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 6A-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.

**PREPARATION FOR THE MAJOR**

One course from Computer Science 8, 9, 16 or Engineering 3 .......................... 3-4

One course from Physics 1, 6A, 7A, or 21 .................................................. 3-4

**UPPER DIVISION MAJOR**

52 UD units are required, of which a minimum of 40 must be in Mathematics. These units must be distributed as follows:

Math 104A-B, 108A-B, 117 .................................................. 20

Two 2-quarter sequences from: Math 118A-B, 119A-B, or 124A-B ................... 16

Math 104C, 108C, or 118C .................................................. 4

Math 132A or 137A .......................................................... 4

8 units of upper-division Math or PSTAT electives ...................................... 8

Elective 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, 8 of the 52 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.

**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.