

APPLIED MATHEMATICS MAJOR, B.S. – 2022-2023

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.

| <u>PRE-MAJOR</u> | <u>UNITS TO COMPLETE</u> |
|-------------------------|---------------------------------|
| Math 2A-B or 3A-B | 8-10 _____ |
| Math 4A-B | 8 _____ |
| Math 6A-B | 8 _____ |
| Math 8* | 5 _____ |

*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

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|---|-----------|
| One course from Computer Science 8, 9, 16 or Engineering 3..... | 3-4 _____ |
| Physics 1 or 6A 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.