

San Diego State University  
Department of Mathematics and Statistics  
Bachelor of Science in  
**APPLIED MATHEMATICS**  
**Emphasis in Applied Mathematics**

**Advisors:** Dr. Carmelo Interlando, interlan@mail.sdsu.edu, 619-594-7237, GMCS 581  
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The purpose of this outline is to give math students some information associated with the major. It is not intended to replace the adviser. Students should see their adviser as soon as they are ready to plan their upper divisional program.

The Applied Mathematics Emphasis is designed to train the student in those areas of mathematics which may be applied to formulate and solve problems in other disciplines. The program is designed to qualify the student for employment as an applied mathematician, but the graduate would be well prepared for graduate study in pure or applied mathematics.

**Upper Division Writing Requirement** Passing the University Writing Examination or completing one of the approved writing courses with a grade of C (2.0) or better.

**Preparation for the Major:** Mathematics 150, 151, 245, 254

Additional lower division coursework required: Computer Science 107 or Mathematics 242, Mathematics 252, Statistics 250. (10 units)

Major: A minimum of 36 upper division units, to include Mathematics 337, 521A, 534A, 541; 524 or 543. 531 or 532 or 534B, Statistics 350A or 550 or 551A, and 15 units of electives in mathematics or an area where mathematics may be applied (approved by the Applied Math adviser) excluding Mathematics 302, 303, 312, 313, 342A, 342B, 413, 414, 509, 510; Statistics 357.

**Auxiliary Area.** A minimum of 12 units from an area to which mathematics may be applied. A typical program might be Physics 195, 195L, 196, 196L, 197, 197L; or Chemistry 200, 201, and a course for which these are prerequisite; or Biology 201 and 202 and courses for which these are prerequisite; or Economics 101, 102, 320, 321. The intent is to train the student in an area in some depth. Some latitude may be allowed in the choice of Department and mix of courses, but all programs must be approved by the Applied Mathematics adviser. The 12-unit requirement is minimal, and a minor in an approved field is highly recommended.

Students must see their adviser and be accepted into the major prior to enrolling in upper division course work. The selection of the upper division work must be approved by the adviser.

The student must complete an outline for the major and file a copy signed by the advisor with the Evaluations Office and the Department of Mathematics and Statistics.