

After Graduation

A Degree in Mathematics opens the door for a variety of careers. Some of our recent graduates have pursued the following paths:

- Columbia University Teachers College to obtain a Masters in Mathematical Education
- National Security Agency in Crypto-Analysis
- Mathematics High School Teacher
- Raytheon as a Software Engineer
- University of Iowa pursuing an M.S. in Actuarial Science
- Texas A&M University in the Applied Mathematics PhD program
- Financial Advisor in San Diego

According to a national survey, the average starting salary for 2005 graduates with a bachelor 's degree in mathematics was \$43,000 and is on its way up. (Data from the NACE, Summer 2004. Note: These are national averages; the figures for California are 15-20% higher.)



Department of Mathematics & Computer Science

For more Information:

Visit our department website at
www.sandiego.edu/cas/math-cs

Or email Dr. Cameron Parker, Math Area
Coordinator at cparker@sandiego.edu

We'd love to hear from you!

Mathematics Program



Department of Mathematics
and Computer Science

Consider Mathematics as Your Field of Study

Mathematics has fascinated and served mankind since earliest history. Early societies studied numbers and geometric figures, at times with nearly religious fervor, and then put some of their discoveries to use dividing land and studying the stars. Today there are dozens of branches of mathematics, many of which find application not only in science and engineering, but also in business, government and the social sciences.

And the fascination for mathematics remains as well: the intriguing patterns, the inherent challenge, the elegant theories and results.

Mathematics at USD

At USD students come to appreciate the beauty and elegance of mathematics as well as its structure and application to other disciplines. In addition to a fine technical program, our students enjoy the advantages of a liberal arts college curriculum and environment. Class sizes are small, and students have many opportunities to talk with their professors outside of class. The program in Mathematics has a threefold objective: to provide courses giving technical mathematical preparation to students in any field of academic endeavor; to provide liberal arts courses which will demonstrate our mathematical heritage from past ages, and point out the impact of mathematical thought and philosophy on our culture in this technological civilization; and to provide courses of advanced mathematical knowledge which will prepare students for graduate work or professional employment in mathematics or related areas.



The Mathematics Curriculum

The Mathematics curriculum is designed to give students a breadth of knowledge covering the major areas in modern mathematics. Prepared students begin with the traditional three consecutive semesters of calculus before taking advanced coursework.

(Prospective entering first-year students are encouraged to take four years of high school mathematics. Advanced placement is possible for those who have scored well on standardized calculus tests such as the AP.) Upper division courses deal with such diverse topics as abstract algebra, number theory, combinatorics, analysis, topology, logic, mathematical modeling, probability and statistics. We offer three programs of study:

BA in Mathematics

BA in Mathematics—Applied Emphasis

A mathematics major with an applied mathematics emphasis is available for students with a special interest in the applications of mathematics

BA in Mathematics—Secondary Education Emphasis

A mathematics major with a secondary education emphasis is available for students interested in teaching mathematics at the high school level.

A comprehensive list of requirements and electives may be found in the current Undergraduate Bulletin.

Opportunities Outside the Classroom

- Math Modeling Club—Work with other students and faculty from a variety of departments outside of math to explore ways to apply mathematics to everyday problems. Compete in the prestigious annual COMAP Contest in mathematical Modeling.
- Applied Math Project Day—Each Spring Senior Applied Math students present Applied Math projects.
- Local Mathematical Meetings—Attend local Mathematical Association of America and other meetings in the area with faculty.
- Research Experiences for Undergraduates (REUs)—Many majors receive grants to participate in research projects.
- Social Events—The Department of Math & Computer Science is a close-knit group of students and faculty who enjoy networking outside of the classroom.



Participants at the 2005 Applied Math Project Day.