

**STATISTICS GRADUATES WORK
IN THE FOLLOWING AREAS:**

- Biostatistics
- Computer Software Development
- Data Analysis
- Econometrics
- Educational Testing
- Environmental Monitoring
- Financial Services
- Human Factors Analysis
- Insurance/Actuary
- Management Consulting
- Market Research Analysis
- Pattern Recognition
- Pharmaceutical Testing
- Product Reliability
- Quality Control
- Simulation Studies
- Survey Design and Analysis
- Systems Analysis
- Teaching (high school & college)

www.calpoly.edu

The Statistics Department offers a program of study leading to a Bachelor of Science degree in statistics, while also offering a minor in statistics to students majoring in other disciplines. There are 14 tenured or tenure-track faculty members in the department, all of whom have their Ph.D. degree in statistical sciences, as well as several full- and part-time lecturers. Faculty members come from diverse backgrounds and have a wide spectrum of emphasis areas in statistics. We are all committed to an interesting and strong curriculum in statistics at the undergraduate level, one which emphasizes application as well as underlying theory.

The Need

In this age of high technology, it has become increasingly easy to obtain and store information from experiments, surveys, and historical studies in fields ranging from medicine to agriculture to business. The proliferation of such quantitative studies has created a tremendous demand for people with statistical skills who are capable of designing experiments, supervising collection of data, and performing appropriate analyses to yield insightful and informative conclusions. The statistics program at Cal Poly is designed to train students to fulfill this need.

Curriculum

Statistical techniques practiced today and statistical theory developed for tomorrow rely on a firm background in mathematics. For this reason, the statistics program at Cal Poly requires two years of lower-division mathematics courses as well as several math electives. Students interested in graduate study often take additional courses in this area beyond what is required.

Using mathematics as a base, the statistics curriculum is set up to give students a firm foundation in probability and

mathematical statistics, while exposing them to the most current techniques used in a wide range of statistical areas. Specifically, the curriculum contains a two-quarter sequence in statistical analysis, courses in analysis of variance, regression analysis, statistical computing, design of experiments, and a three-quarter sequence in probability and mathematical statistics. Students can also choose from courses in survey sampling, multivariate analysis, time series and forecasting, categorical data analysis, advanced experimental design, and a second course in statistical computing.

An important aspect of the program is the requirement that students take eight units of advisor-approved electives. It is recommended that these courses be taken in a single area having substantial statistical applications. Recent popular choices have included finance, biology, marketing, psychology, and computer science.

For additional information, contact:

Statistics Department
Cal Poly
San Luis Obispo, CA 93407-0405
Phone: (805) 756-2709
Web: www.calpoly.edu/~stat/

Students are encouraged to review admissions and curriculum requirements in the *Cal Poly Catalog* or at the following Web sites:

Curriculum Requirements:
www.calpoly.edu/~acadprog/

Cal Poly Admissions:
www.ess.calpoly.edu/_admiss/