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# Biostatistics and Biometry

In the College of Sciences and the  
College of Health and Human Services

## Faculty Committee for Biostatistics and Biometry

Stuart H. Hurlbert, Ph.D., Professor of Biology  
Kung-Jong Lui, Ph.D., Professor of Statistics  
Donald J. Slymen, Ph.D., Professor of Public Health  
Duane L. Steffey, Ph.D., Professor of Statistics  
John E. Alcaraz, Ph.D., Associate Professor of Public Health  
Douglas H. Deutschman, Ph.D., Associate Professor of Biology  
Colleen Kelly, Ph.D., Associate Professor of Statistics  
Juanjuan Fan, Ph.D., Assistant Professor of Statistics  
Ming Ji, Ph.D., Assistant Professor of Public Health  
Richard Levine, Ph.D., Assistant Professor of Statistics  
Chii-Dean Lin, Ph.D., Assistant Professor of Statistics

## General Information

San Diego State University provides preparation for biostatistically oriented careers by offering biostatistics related coursework, research opportunities and biostatistical consulting experience within regular degree programs in the Departments of Biology, Mathematics and Statistics, and the Graduate School of Public Health. A Master of Science degree in statistics with concentration in biostatistics may be earned in the Department of Mathematics and Statistics; and a Master of Public Health degree with concentration in biometry may be earned in the Graduate School of Public Health. Degrees in general biostatistics or biometry are not offered by the University. However, a Master of Science degree in biostatistics or biometry may be earned in Interdisciplinary Studies (see the appropriate section in this bulletin).

Specific courses in biostatistics and biometry (listed below) are offered with the cooperation of faculty from the participating departments. Biostatistics and biometry courses that specialize in applications to biology are offered in the Department of Biology; similarly, courses that specialize in applications to public health are offered in the Graduate School of Public Health. Courses that cover a variety of areas of application (including biology and public health) are offered by the Department of Mathematics and Statistics. In addition to these applied courses, the Department of Mathematics and Statistics offers some courses in statistics and biostatistics that are more mathematically oriented.

## Courses

### Biology Course (BIOL)

(Adviser: Deutschman, (619) 594-5391)

BIOL 597A. Univariate Statistical Methods in Biology (3)

### Public Health Courses (P H)

(Adviser: Slymen, (619) 594-6439)

P H 602. Biostatistics (3)  
P H 627. Advanced Statistical Methods in Public Health (3)  
P H 628. Applications of Multivariate Statistics in Public Health (3)  
P H 722. Seminar in Clinical Trials (3)

### Statistics Courses (STAT)

(Adviser: Lui, (619) 594-7239)

STAT 510. Applied Regression Analysis (3)  
STAT 520. Applied Multivariate Analysis (3)  
STAT 550. Applied Probability (3)  
STAT 551A. Probability and Mathematical Statistics (3)  
STAT 551B. Probability and Mathematical Statistics (3)  
STAT 560. Sample Surveys (3)  
STAT 570. Stochastic Processes (3)  
STAT 670A-670B. Advanced Mathematical Statistics (3-3)  
STAT 671. Statistical Computing (3)  
STAT 672. Nonparametric Statistics (3)  
STAT 676. Bayesian Statistics (3)  
STAT 677. Design of Experiments (3)  
STAT 678. Survival Analysis (3)  
STAT 679. Analysis of Discrete Data (3)  
STAT 680A-680B. Advanced Biostatistical Methods (3-3)

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