
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
Juanjuan Fan, Ph.D., Associate Professor of Statistics
Colleen Kelly, Ph.D., Associate Professor of Statistics
Richard Levine, Ph.D., Associate Professor of Statistics
Ming Ji, Ph.D., Assistant Professor of Public Health
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.

Refer to Courses and Curricula and Regulations of the Graduate Division sections of this bulletin for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

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)