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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

Douglas H. Deutschman, Ph.D., Professor of Biology and Associate  
Dean for Resources of the College of Sciences  
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Xialu Liu, Ph.D., Assistant Professor of Management  
Information Systems  
Jorge C. Román, Ph.D., Assistant Professor of Statistics  
Mingan Yang, Ph.D., Assistant Professor of Public Health

## 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 Acceptable for Biostatistics and Biometry

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

### Biology Course (BIOL)

(Adviser: Douglas H. Deutschman, Ph.D., 619-594-5391)

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

### Public Health Courses (P H)

(Adviser: Mingan Yang, Ph.D., 619-594-3454)

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)

### Statistics Courses (STAT)

(Adviser: Kung-Jong Lui, Ph.D., 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 580. Statistical Computing (3)

STAT 670A-670B. Advanced Mathematical Statistics (3-3)

STAT 672. Nonparametric Statistics (3)

STAT 676. Bayesian Statistics (3)

STAT 677. Design of Experiments (3)

STAT 678. Survival Analysis (3)

STAT 680A-680B. Advanced Biostatistical Methods (3-3)

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