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
Juanjuan Fan, Ph.D., Professor of Statistics
Richard A. Levine, Ph.D., Professor of Statistics
Kung-Jong Lui, Ph.D., Professor of Statistics
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Jianwei Chen, Ph.D., Associate Professor of Statistics
Xialu Liu, Ph.D., Assistant Professor of Management Information Systems
John C. Roman, 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 (BIOL)
(Adviser: Douglas H. Deutschman, Ph.D., 619-594-5391)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIOL 597A</td>
<td>Univariate Statistical Methods in Biology</td>
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Public Health (PH)
(Adviser: Mingan Yang, Ph.D., 619-594-3454)
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<tr>
<td>PH 602</td>
<td>Biostatistics</td>
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<tr>
<td>PH 627</td>
<td>Advanced Statistical Methods in Public Health</td>
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<tr>
<td>PH 628</td>
<td>Applications of Multivariate Statistics in Public Health</td>
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Statistics (STAT)
(Adviser: Kung-Jong Lui, Ph.D., 619-594-7239)
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<tr>
<td>STAT 520</td>
<td>Applied Multivariate Analysis</td>
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<td>STAT 550</td>
<td>Applied Probability</td>
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<td>STAT 551A</td>
<td>Probability and Mathematical Statistics</td>
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<tr>
<td>STAT 551B</td>
<td>Probability and Mathematical Statistics</td>
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<td>STAT 560</td>
<td>Sample Surveys</td>
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<td>STAT 580</td>
<td>Statistical Computing</td>
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<td>STAT 670A-670B</td>
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<td>STAT 672</td>
<td>Nonparametric Statistics</td>
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<td>STAT 676</td>
<td>Bayesian Statistics</td>
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<td>Design of Experiments</td>
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<td>STAT 678</td>
<td>Survival Analysis</td>
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<td>STAT 680A-680B</td>
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