

# Biostatistics

## *Specialized Certificate*

Biostatistics is an indispensable tool for improving our understanding of biological processes and has a direct impact in ensuring the safety and efficacy of pharmacological and biotechnological products. This certificate emphasizes the application of statistical techniques to the analysis of clinical data. The course sequence begins with basic statistical concepts in biostatistics and then moves to more advanced topics, including the use of SAS, the dominant software for statistical analysis in the field.

### **Benefits:**

- All courses are taught online
- Practical hands-on training
- Taught by leading industry practitioners
- Can be completed in one year
- Immediately applicable skills


### **Courses:**

- Biostatistics
- SAS Programming I: DATA Step and PROC Fundamentals
- Biostatistical Methods I: Linear Regression and ANOVA
- Biostatistical Methods II: Logistic Regression and Survival Analysis

### **Key Topics:**

Along with SAS programming, students will learn commonly used statistical methods, such as:

- Simple and multiple linear regression
- Simple and multiple logistic regression
- Survival analysis
- Analysis of variance (ANOVA)
- Analysis of covariance (ANCOVA)



Leverage biological and clinical data to discover new technologies, new classes begin quarterly.

ALL  
COURSES  
OFFERED  
ONLINE

*For more information, contact:*

Felicia Murray

Program Manager

unexbio@ucsd.edu | (858) 534-9353