



# TRMD 655

## Principles of Biostatistics

Fall 2015 (3-Credit)

Wednesday Mornings (9-12 PM) at the Kaka'ako Campus  
In JABSOM Library Computer Room

### Why Take this Course?

Biostatistics plays a critical and central role in multidisciplinary basic science, clinical and translational research. It encompasses all phases of a research project. Biostatistics is increasingly relevant to biomedical and health sciences education because of the need to collect, manage, analyze, and interpret biomedical data. This TRMD 655 Principles of Biostatistics Course will attempt to introduce a wide range of biostatistical tools which usually are not covered in one single introductory graduate biostatistics course.

### Objectives of the Course:

1). To improve the understanding of basic probability and biostatistical concepts and principles; 2). To introduce and describe important and commonly used biostatistical methods; 3). To provide hands-on training for students to perform proper data analysis using simple computing software.

### Materials Covered:

Descriptive statistics, probability and distribution, point and interval estimation, hypothesis testing, z-test, t-test, chi-square test, correlation, linear regression, ANOVA, ANCOVA, logistic regression, survival analysis, and non-parametric tests. Prerequisite: Algebra and one-semester of calculus or consent.

### Instructor:

Eunjung Lim, Ph.D., Assistant Professor, Department of Tropical Medicine  
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