

Term II : January – March 2019

BIOS5002 Linear Models

(2 credits)

Course Coordinator: Prof. William Goggins

Course Description

This course will provide a foundation for the practical analysis of data for which the primary outcome is a continuous variable. The course will begin with an introduction to ‘real-world’ data analysis with a motivating example looking at predictors of infant birthweight in Hong Kong. Methods for multivariate analysis of predictors of continuous outcomes including one-way and two-way ANOVA and multiple linear regression will then be discussed in detail with an emphasis on correct use of these methods in practice.

Learning Outcomes/Objectives

1. Understand and evaluate the use of linear models in the medical literature in an intelligent manner.
2. Develop skills in analyzing epidemiological data with continuous outcomes using linear models and to understand the basic principles that underlie research designs and statistical inference.
3. Perform fundamental statistical procedures for research projects involving continuous outcomes and interpret results.

Course Schedule

Session	Date	Time	Venue
1	Jan 10, 2019 (Thu)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital And CUHK campus, Shatin, N.T., Hong Kong
2	Jan 17, 2019 (Thu)	6:30 – 9:30 pm	
3	Jan 24, 2019 (Thu)	6:30 – 9:30 pm	
4	Jan 31, 2019 (Thu)	6:30 – 9:30 pm	
5	Feb 14, 2019 (Thu)	6:30 – 9:30 pm	
6	Feb 21, 2019 (Thu)	6:30 – 9:30 pm	
7	Feb 28, 2019 (Thu)	6:30 – 9:30 pm	
8	Mar 7, 2019 (Thu)	6:30 – 9:30 pm	
9	Mar 14, 2019 (Thu)	6:30 – 8:30 pm	

Fee

Application Fee: \$100

Course Fee: \$9,400