



**16 JANUARY TO 20 APRIL 2018**  
**(TUESDAYS & FRIDAYS, 10AM TO 12NOON)**

## ADVANCED BIOSTATISTICS

### WHAT IS THE COURSE ABOUT?

This course introduces several advanced topics for analyzing large or complex datasets, with a particular emphasis on biomedical and epidemiological data. Classical strategies for statistical inference, variable selection and model assessment are less efficient when the dimension of the dataset is large. This course will introduce Bayesian techniques and multivariate data analysis in an applied framework that combines both computing and theory, and also overviews the problem of multiple testing correction common in, for example, genomics and proteomics studies.

### WHO SHOULD ATTEND?

Individual with a first degree in statistics or a related field, looking to learn advanced statistical methods that are useful for modern data analysis.

### PRE-REQUISITES

Participants are expected to be able to program, and to have some fundamental statistical theory such as an understanding of likelihood functions in the Bayesian statistics segment of the course.

## COURSE COODINATORS



**PROF TEO YIK YING**



**ASSOC PROF CHOI HW**



**ASSOC PROF ALEX R COOK**

### CLOSING DATE:

15 DECEMBER 2017

### COURSE FEES:

\$1,337.50 (INCLUDING GST)

### PAYMENT DUE:

5 JANUARY 2018

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### REGISTER AT:

<http://tinyurl.com/biostat2018>

