

# COURSE DETAIL

## STATISTICAL LEARNING I

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

148

**UCEAP Course Suffix**

A

**UCEAP Official Title**

STATISTICAL LEARNING I

**UCEAP Transcript Title**

STATISTICAL LEARNING

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

This series of two courses covers many of the popular approaches for a variety of statistical problems. There is heavy emphasis on the implementation of these methods on real-world data sets in the popular statistical software package R. Part I gives a broad overview of the common problems as well as their most popular approaches. Topics include linear regression model and its extensions, classification methods, resampling methods, regularization and model selection, principal components and clustering methods.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

ST3248

### **Host Institution Course Title**

STATISTICAL LEARNING I

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Statistics and Data Science

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