

# COURSE DETAIL

## STATISTICAL LEARNING

**Country**

Hong Kong

**Host Institution**

University of Hong Kong

**Program(s)**

University of Hong Kong

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

134

**UCEAP Course Suffix****UCEAP Official Title**

STATISTICAL LEARNING

**UCEAP Transcript Title**

STATISTICAL LEARN

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course examines supervised and unsupervised learning, with emphases on the theoretical underpinnings and on applications in the statistical programming environment R. Topics include linear methods for regression and classification, model selection, model averaging, basic expansions and regularization, kernel smoothing methods, additive models and tree-based methods. We will also provide an overview of neural networks and random forests.

### Language(s) of Instruction

English

### Host Institution Course Number

COMP3354

### Host Institution Course Title

STATISTICAL LEARNING

### Host Institution Course Details

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

### Course Last Reviewed

2024-2025

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