

# COURSE DETAIL

## PROBABILITY AND ESTIMATION THEORY

**Country**

Australia

**Host Institution**

University of Sydney

**Program(s)**

University of Sydney

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

111

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

PROBABILITY AND ESTIMATION THEORY

**UCEAP Transcript Title**

PROBAB & ESTIM THRY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course examines probability, the concept of random variables, special distributions including the Binomial, Hypergeometric, Poisson, Normal, Geometric and Gamma and statistical estimation. This course will investigate univariate techniques in data analysis and for the most common statistical distributions that are used to model patterns of variability. Students will learn the method of moments and maximum likelihood techniques for fitting statistical distributions to data.

### Language(s) of Instruction

English

### Host Institution Course Number

STAT2011

### Host Institution Course Title

PROBABILITY AND ESTIMATION THEORY

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

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