

# COURSE DETAIL

## PROBABILITY AND STATISTICS I

**Country**

United Kingdom - England

**Host Institution**

King's College London

**Program(s)**

King's College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics Mathematics

**UCEAP Course Number**

117

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

PROBABILITY AND STATISTICS I

**UCEAP Transcript Title**

PROBABILITY&STATS 1

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course introduces the basic concepts and computations of probability theory as well as the statistical analysis of data and the main statistical tests. It examines elementary combinatorial analysis, the definition of probability, unions and intersections, statistical independence, exclusivity and exhaustibility, conditional probability, Bayes' theorem, discrete and continuous random variables, binomial distribution, Poisson distribution, normal distribution, descriptive statistics, correlation and regression, hypothesis tests, and confidence intervals.

## Language(s) of Instruction

English

## Host Institution Course Number

4CCM141A

## Host Institution Course Title

PROBABILITY AND STATISTICS I

## Host Institution Campus

King's College London

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mathematics

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