

# COURSE DETAIL

## ELEMENTARY STATISTICAL THEORY

**Country**

United Kingdom - England

**Host Institution**

London School of Economics

**Program(s)**

London School of Economics

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

102

**UCEAP Course Suffix**

Y

**UCEAP Official Title**

ELEMENTARY STATISTICAL THEORY

**UCEAP Transcript Title**

STATISTICAL THEORY

**UCEAP Quarter Units**

12.00

**UCEAP Semester Units**

8.00

### **Course Description**

The course provides a precise and accurate treatment of introductory probability theory, statistical ideas, methods, and techniques. Topics covered are data visualization and descriptive statistics, probability theory, random variables, common distributions of random variables, multivariate random variables, sampling distributions of statistics, point estimation, interval estimation, hypothesis testing, analysis of variance (ANOVA), linear regression, nonparametric tests, goodness-of-fit, and independence tests.

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

English

### **Host Institution Course Number**

ST102

### **Host Institution Course Title**

ELEMENTARY STATISTICAL THEORY

### **Host Institution Course Details**

[https://www.lse.ac.uk/resources/calendar2020-2021/courseGuides/ST/2020\\_ST102.htm](https://www.lse.ac.uk/resources/calendar2020-2021/courseGuides/ST/2020_ST102.htm)

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Statistics

### **Course Last Reviewed**

2024-2025

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