

# COURSE DETAIL

## PROBABILITY AND STATISTICS

**Country**

Japan

**Host Institution**

Keio University

**Program(s)**

Keio University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

145

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

PROBABILITY AND STATISTICS

**UCEAP Transcript Title**

PROBABILITY & STATS

**UCEAP Quarter Units**

3.00

**UCEAP Semester Units**

2.00

## Course Description

This course aims at providing a foundation of knowledge on probability theory for advanced undergraduate students or first-year graduate students who have studied introductory statistics. The course covers basic concepts in probability theory such as conditional probabilities, random variables, probability distributions and expectation in a mathematically rigorous fashion. This course also offers students an opportunity to learn Python programming for statistical inference and Monte Carlo simulation. It is preferable for students to install Anaconda (<https://www.anaconda.com>) on their laptop computers and bring them to the classroom.

## Language(s) of Instruction

English

## Host Institution Course Number

N/A

## Host Institution Course Title

PROBABILITY AND STATISTICS

## Host Institution Campus

Keio University, Mita Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Economics

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