

# 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**

A

**UCEAP Official Title**

PROBABILITY AND STATISTICS

**UCEAP Transcript Title**

PROBABILITY & STAT

**UCEAP Quarter Units**

3.00

**UCEAP Semester Units**

2.00

### **Course Description**

This course provides a foundation of knowledge on Bayesian statistics for advanced undergraduate students or first-year graduate students who have studied introductory statistics. This course introduces basic concepts in Bayesian statistics such as likelihood, prior distribution, posterior distribution, predictive distribution and Bayes factor. This course also offers an opportunity to learn Python programming for Bayesian statistical analysis. 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

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Economics

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