

# COURSE DETAIL

## STATISTICAL MATHEMATICS

**Country**

Korea, South

**Host Institution**

Korea University

**Program(s)**

Korea University

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

21

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

STATISTICAL MATHEMATICS

**UCEAP Transcript Title**

STATISTICAL MATH

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course introduces the subject of calculus, including the study of limits and derivatives, and their applications, which is essential and crucial for advanced statistic courses, such as probability theory, mathematical statistics. Specific topics include the limits of functions, derivatives of algebraic, trigonometric, exponential and logarithmic functions and their inverses and the definite integral and its application to area problems. Also, included are applications of the derivative including maximum and minimum problems, and curve sketching using calculus, techniques of integration, indeterminate forms and infinite series.

### Language(s) of Instruction

English

### Host Institution Course Number

STAT201

### Host Institution Course Title

STATISTICAL MATHEMATICS

### Host Institution Course Details

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Statistics

### Course Last Reviewed

2021-2022

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