

COURSE DETAIL

PROBABILITY THEORY

Country

Korea, South

Host Institution

Yonsei University

Program(s)

Yonsei University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics Mathematics

UCEAP Course Number

108

UCEAP Course Suffix**UCEAP Official Title**

PROBABILITY THEORY

UCEAP Transcript Title

PROBABILITY THEORY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course provides an introductory overview of probability theory, presented in a mathematically rigorous manner. Starting from the definitions of events, random variables, independence, and expectation, we also cover some basic applications such as weak convergence, the law of large numbers, characteristic functions, the central limit theorem, etc.

Prerequisites: Elementary level of calculus (required), analysis (required), and linear algebra (optional).

Language(s) of Instruction

Korean

Host Institution Course Number

MAT3111

Host Institution Course Title

PROBABILITY THEORY

Host Institution Course Details

<https://portal.yonsei.ac.kr/>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

2025-2026

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