COURSE DETAIL

PROBABILITY THEORY Country Norway **Host Institution** University of Oslo Program(s) University of Oslo **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** 8.00 **UCEAP Semester Units** 5.30

Course Description

The course gives an introduction to probability theory in a measure-theoretic setting. Among the topics discussed are: Probability measures, σ-algebras, conditional expectations, convergence of random variables, the law of large numbers, characteristic functions, the central limit theorem, filtrations, and martingales in discrete time. Recommended prerequisites include calculus, linear algebra, and probability and statistical modeling.

Language(s) of Instruction

English

Host Institution Course Number

STK-MAT3710

Host Institution Course Title

PROBABILITY THEORY

Host Institution Course Details

https://www.uio.no/studier/emner/matnat/math/STK-MAT3710/indexeng.html

Host Institution Campus

Host Institution Faculty

Mathematics and Natural Sciences

Host Institution Degree

Bachelor

Host Institution Department

Mathematics

Course Last Reviewed

2024-2025

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