

# COURSE DETAIL

## PROBABILITY

**Country**

France

**Host Institution**

University of Bordeaux

**Program(s)**

University of Bordeaux

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics Mathematics

**UCEAP Course Number**

104

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

PROBABILITY

**UCEAP Transcript Title**

PROBABILITY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course introduces the mathematical theory of probability, starting with the definition of probability spaces to the fundamental limit theorems, namely the law of large numbers and the central limit theorem. The following concepts are covered: measurement theory, probability spaces; conditional probability and independence; random variables, discrete random variables; density random variables; discrete random vectors; density random vectors; notions of convergence for sequences of random variables; limit theorems; Gaussian vectors.

### Language(s) of Instruction

French

### Host Institution Course Number

4TMQ601U

### Host Institution Course Title

PROBABILITY

### Host Institution Campus

UNIVERSITY OF BORDEAUX

### Host Institution Faculty

SCIENCES AND TECHNOLOGIES

### Host Institution Degree

### Host Institution Department

MATHEMATICS

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