COURSE DETAIL

PROBABILITY
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics Mathematics
UCEAP Course Number 116
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 offers an introduction to probability theory for students with knowledge of elementary calculus. The course covers not only the mathematics of probability theory but works through diverse examples to illustrate the wide scope of applicability of probability, such as in engineering and computing, social, and management sciences. Topics covered include counting methods, sample space and events, axioms of probability, conditional probability, independence, random variables, discrete and continuous distributions, joint and marginal distributions, conditional distribution, independence of random variables, expectation, conditional expectation, moment generating function, central limit theorem, and weak law of large numbers.

Language(s) of Instruction
English

Host Institution Course Number
MA2216,ST2131

Host Institution Course Title
PROBABILITY

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Statistics and Data Science

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