COURSE DETAIL

COMBINATORICS AND GRAPHS

Country
Singapore

Host Institution
National University of Singapore

Program(s)
National University of Singapore

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
110

UCEAP Course Suffix
A

UCEAP Official Title
COMBINATORICS AND GRAPHS

UCEAP Transcript Title
COMBINATORICS

UCEAP Quarter Units
6.00

UCEAP Semester Units

4.00

Course Description

This course introduces fundamental principles and techniques in combinatorics as well as the basics of graph theory, which have practical applications in such areas as computer science and operations research. The major topics from combinatorics are: Permutations and Combinations, Binomial and Multinomial Coefficients, Principle of Inclusion and Exclusion, Generating Functions, Recurrence Relations. The major topics from graph theory are: Basic Concepts and Results, Bipartite graphs and trees.

Language(s) of Instruction
English

Host Institution Course Number
MA2214

Host Institution Course Title
COMBINATORICS AND GRAPHS I

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

Course Last Reviewed
2022-2023

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