

COURSE DETAIL

MATHEMATICS WORKSHOP - THE ART OF DISCOVERY

Country

United Kingdom - England

Host Institution

University of Cambridge, Pembroke College

Program(s)

Summer in Cambridge

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

107

UCEAP Course Suffix

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UCEAP Official Title

MATHEMATICS WORKSHOP - THE ART OF DISCOVERY

UCEAP Transcript Title

MATHEMATICS WORKSHP

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This interactive course revolves around problem-solving and both playing and analyzing mathematical games. Throughout the course, students are given a sequence of carefully selected problems to solve individually. Students are given ample time to think about the questions - with hints from the instructors as needed - and they receive follow-up problems after each problem solved. Later in the course, the solutions and key learnings are presented by the instructors. Topics include mathematical games, graph theory, chapters from combinatorics, information theory, and invariants.

Language(s) of Instruction

English

Host Institution Course Number

Host Institution Course Title

MATHEMATICS WORKSHOP - THE ART OF DISCOVERY

Host Institution Course Details

<https://www.pem.cam.ac.uk/international-programmes/pembroke-cambridge-summer-pr...>

Host Institution Campus

Host Institution Faculty

Science and Mathematics

Host Institution Degree

Host Institution Department

Course Last Reviewed

2023-2024

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