

COURSE DETAIL

INTRODUCTION TO THE PHILOSOPHY OF MATHEMATICS

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Philosophy

UCEAP Course Number

120

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO THE PHILOSOPHY OF MATHEMATICS

UCEAP Transcript Title

PHIL OF MATHEMATICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course investigates some of the deep and puzzling philosophical issues arising from mathematics. Some are metaphysical and semantic: What is mathematics about? Are there such things as mathematical objects (numbers, functions, sets, etc), and if so, do they exist in the same way as more familiar entities such as tables and chairs? Others are epistemological: How do we obtain mathematical knowledge? Does it arise from pure reason alone, or does the empirical world play a role? Students examine a number of influential views, including logicism, constructivism, platonism, fictionalism, and structuralism. The course requires students to take prerequisites.

Language(s) of Instruction

English

Host Institution Course Number

PH3252

Host Institution Course Title

INTRODUCTION TO THE PHILOSOPHY OF MATHEMATICS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Philosophy

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