

COURSE DETAIL

INTRODUCTORY MATHEMATICS

Country

Singapore

Host Institution

National University of Singapore

Program(s)

National University of Singapore

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

13

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTORY MATHEMATICS

UCEAP Transcript Title

INTRO MATHEMATICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides appropriate mathematical knowledge and skill to be prepared for further study of mathematics-related disciplines. The course provides a level of proficiency in algebra and calculus equivalent to the GCE Advanced Level. Major topics: Sets, functions and graphs, polynomials and rational functions, inequalities in one variable, logarithmic and exponential functions, trigonometric functions, sequences and series, techniques of differentiation, applications of differentiation, maxima and minima, increasing and decreasing functions, curve sketching, techniques of integration, applications of integration, areas, volumes of solids of revolution, solution of first order ordinary differential equations by separation of variables and by integrating factor, complex numbers, vectors.

Language(s) of Instruction

English

Host Institution Course Number

MA1301

Host Institution Course Title

INTRODUCTORY MATHEMATICS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

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