COURSE DETAIL

ENGINEERING MATHEMATICS II

Country
Singapore

Host Institution
Nanyang Technological University

Program(s)
Nanyang Technological University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Engineering Electrical Engineering

UCEAP Course Number
125

UCEAP Course Suffix

UCEAP Official Title
ENGINEERING MATHEMATICS II

UCEAP Transcript Title
ENGINEERING MATH II

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description

This course furthers the fundamental mathematical knowledge and skills that are necessary in engineering. Topics include complex numbers, vectors, matrices, limits and continuity of functions, derivatives and integration and their applications, multivariable calculus, partial derivatives, ordinary differential equations, double integrals in polar coordinates, dot product, and cross product. The course requires students to take prerequisites.

Language(s) of Instruction
English

Host Institution Course Number
IE2107

Host Institution Course Title
ENGINEERING MATHEMATICS II

Host Institution Course Details
https://wis.ntu.edu.sg/webexe/owa/AUS_SUBJ_CONT.main_display

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Electrical and Electronic Engineering

Course Last Reviewed
2025-2026

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