

COURSE DETAIL

LINEAR ALGEBRA I

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

112

UCEAP Course Suffix

A

UCEAP Official Title

LINEAR ALGEBRA I

UCEAP Transcript Title

LINEAR ALGEBRA I

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces and investigates fundamental concepts of linear algebra in the context of the Euclidean spaces \mathbb{R}^n . Topics include systems of linear equations, matrices, determinants, Euclidean spaces, linear combinations and linear span, subspaces, linear independence, bases and dimension, rank of a matrix, inner products, eigenvalues and eigenvectors, diagonalization, linear transformations between Euclidean spaces, and applications.

Language(s) of Instruction

English

Host Institution Course Number

MA2001

Host Institution Course Title

LINEAR ALGEBRA I

Host Institution Course Details

<https://nusmods.com/courses/MA2001/linear-algebra-i>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

2023-2024

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