

COURSE DETAIL

LINEAR ALGEBRA

Country

Korea, South

Host Institution

Yonsei University

Program(s)

Yonsei University

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

21

UCEAP Course Suffix**UCEAP Official Title**

LINEAR ALGEBRA

UCEAP Transcript Title

LINEAR ALGEBRA

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course presents the fundamentals of linear algebra including systems of linear equations, matrix, determinants, vector spaces, linear transformations, diagonalization and singular value decomposition. It also gives and elementary treatments of its applications. Topics include vectors and matrices in engineering and mathematics, system of linear equations, matrices and matrix algebra, subspaces and linear independence, matrix factorization; LU-decomposition, determinants, Eigenvalues and Eigenvectors, the Dimension Theorem and its implications and singular value decomposition. Textbook: Howard Anton, Robert C. Busby, CONTEMPORARY LINEAR ALGEBRA.

Language(s) of Instruction

English

Host Institution Course Number

STA2102

Host Institution Course Title

LINEAR ALGEBRA

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Statistics

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