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

Linear Algebra is a field of mathematics that focuses on vectors and matrices, covering fundamental concepts and theories of linear spaces such as systems of linear equations, vector spaces, matrix operations, eigenvalues, and eigenvectors. It serves as an essential tool in economics and applied statistics. Specifically, linear algebra provides the foundation for optimization theory, which is widely used in economics. In statistics, it plays a key role in estimating regression coefficients. Furthermore, matrix factorization is frequently applied in big data analysis and machine learning algorithms. The objective of this course is to develop a solid understanding of the core concepts and theories of vectors and matrices, and to cultivate the ability to apply them to a variety of problems.

Language(s) of Instruction
Korean

Host Institution Course Number
STA2102

Host Institution Course Title
LINEAR ALGEBRA

Host Institution Course Details
https://portal.yonsei.ac.kr/

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2025-2026

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