

# 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 Course Details****Host Institution Campus****Host Institution Faculty****Host Institution Degree****Host Institution Department**

Statistics

**Course Last Reviewed**

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