COURSE DETAIL

LINEAR ALGEBRA I

Country
Hong Kong

Host Institution
University of Hong Kong

Program(s)
University of Hong Kong

UCEAP Course Level
Lower Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
21

UCEAP Course Suffix

UCEAP Official Title
LINEAR ALGEBRA I

UCEAP Transcript Title
LINEAR ALGEBRA I

UCEAP Quarter Units
5.00

UCEAP Semester Units
3.30

Course Description
This course introduces the theory and techniques of linear algebra through many concrete examples in the Euclidean spaces. Topics include vector geometry in R^2 and R^3, systems of linear equations, row equivalence of matrices, matrix algebra, determinant and rank of matrices, vector spaces, subspaces, basis and dimension, linear transformation, change of bases and diagonalization of matrices, eigenvalue problem, and inner product. Text: W. K. Nicholson, LINEAR ALGEBRA WITH APPLICATIONS. Assessment: exam (50%), test (40%), assignments (10%).

Language(s) of Instruction
English

Host Institution Course Number
MATH2101

Host Institution Course Title
LINEAR ALGEBRA I

Host Institution Campus
University of Hong Kong

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

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