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 Course Details

Host Institution Campus
University of Hong Kong

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

Course Last Reviewed
2023-2024

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