

COURSE DETAIL

LINEAR ALGEBRA I

Country

Ireland

Host Institution

Trinity College Dublin

Program(s)

Trinity College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

111

UCEAP Course Suffix**UCEAP Official Title**

LINEAR ALGEBRA I

UCEAP Transcript Title

LINEAR ALGEBRA 1

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course teaches the application of linear algebra. Topics include lines, planes, vectors, dot and cross product; linear systems, Gauss-Jordan elimination, and reduced row echelon form; matrix multiplication, elementary row operations, and inverse matrix; permutations, odd and even, determinants, and transpose matrix; minors, cofactors, adjoint matrix, inverse matrix, and Cramer's rule; vector spaces, linear independence and span, and bases and dimension; linear operators, matrix of a linear operator with respect to a basis; and change of basis, transition matrix, and conjugate matrices.

Language(s) of Instruction

English

Host Institution Course Number

MAU11101

Host Institution Course Title

LINEAR ALGEBRA I

Host Institution Campus

Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

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