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 inlcude 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 Course Details
https://www.maths.tcd.ie/undergraduate/modules1920/MAU11101.php

Host Institution Campus
Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

Course Last Reviewed
2019-2020

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