

COURSE DETAIL

LINEAR ALGEBRA

Country

Ireland

Host Institution

University of Galway

Program(s)

University of Galway

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

102

UCEAP Course Suffix**UCEAP Official Title**

LINEAR ALGEBRA

UCEAP Transcript Title

LINEAR ALGEBRA

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course is an introduction to the theory and application of linear algebra. Students learn to draw diagrams that illustrate the basic operations of vector algebra in two and three dimensions, recognize the equations of lines and planes in two and three dimensions, perform the matrix computations outlined in the following, solve a linear system using Gaussian elimination, compute the inverse of an invertible matrix, find the orthogonal projection of a vector onto a hyperplane, compute the determinant of a square matrix, compute the characteristic equation of a matrix, find the eigenvectors corresponding to a given eigenvalue, and to diagonalize a diagonalizable matrix.

Language(s) of Instruction

English

Host Institution Course Number

MA203

Host Institution Course Title

LINEAR ALGEBRA

Host Institution Course Details

<http://www.nuigalway.ie/course-information/module/MA203>

Host Institution Campus

NUI Galway

Host Institution Faculty

Host Institution Degree

Host Institution Department

School of Mathematics, Statistics, and Applied Maths

Course Last Reviewed

2019-2020

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