

COURSE DETAIL

LINEAR MATHEMATICS 2

Country

United Kingdom - Scotland

Host Institution

University of St Andrews

Program(s)

Scottish Universities, Psychology and Neuroscience, St Andrews, University of St Andrews

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

109

UCEAP Course Suffix**UCEAP Official Title**

LINEAR MATHEMATICS 2

UCEAP Transcript Title

LINEAR MATH 2

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course continues the study of vector spaces and linear transformations begun in MT2501. It shows the importance of linearity in many areas of mathematics ranging from linear algebra through to geometric applications to linear operators and special functions. The main topics include diagonalization and the minimum polynomial, Jordan normal form, inner product spaces, orthonormal sets and the Gram-Schmidt process, and adjoint and self-adjoint operators.

Language(s) of Instruction

English

Host Institution Course Number

MT3501

Host Institution Course Title

LINEAR MATHEMATICS 2

Host Institution Campus

St Andrews

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Mathematics & Statistics

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