

# 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 Course Details**

**Host Institution Campus**

St Andrews

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**

Mathematics & Statistics

**Course Last Reviewed**

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