

**MA1114 Linear Algebra**

**Academic Year:** 2019/0  
**Module Level:** Year 1  
**Scheme:** UG  
**Department:** Mathematics  
**Credits:** 30

**Student Workload (hours)**

Lectures  
 Seminars  
 Practical Classes & Workshops  
 Tutorials  
 Fieldwork  
 Project Supervision  
 Guided Independent Study  
 Demonstration  
 Supervised time in studio/workshop  
 Work Based Learning  
 Placement  
 Year Abroad  
 Total Module Hours

**Period:** Academic Year  
**Occurrence:** E  
**Coordinator:** Julia Goedecke  
**Mark Scheme:** UG Module Mark Scheme

No.	Assessment Description	Weight %	Qual Mark	Exam Hours	Ass't Group	Alt Reass't
001	Coursework	20				
002	Skills Tests	30				
003	Examination (final)	50		2		
103	Examination	100		2		Y

**Intended Learning Outcomes**

- Apply and reproduce main theorems of Linear Algebra and proofs.
- Apply the concepts of vectors, linear independence, bases, subspaces and linear transformations in the context of abstract vector spaces as well as concrete problems.
- Calculate and manipulate vectors, matrices and determinants, inner products of vectors, eigenvalues and eigenvectors.

**Teaching and Learning Methods**

Lectures, feedback lectures, weekly feedback classes for guidance with examples sheets, mixed-module surgeries, computer-aided learning.

**Assessment Methods**

Coursework, Tests, Exam

**Pre-Requisites**

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**Co-Requisites**

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**Excluded Combinations**

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**Guided Independent Study: Indicative Activities**

Directed reading, computer practice, review of lecture recordings and lecture notes, solving problem sheets/workbooks, homework, examination revision, project work.