MA1K2-0 Refresher Mathematics

20/21

Department
Warwick Mathematics Institute
Level
Undergraduate Level 1
Module leader
Keith Ball
Credit value
0
Module duration
4 weeks
Assessment
100% coursework
Study location
University of Warwick main campus, Coventry

Description

Introductory description

It is a module for new incoming students based on A-level Mathematics but done right.

Module aims

The next year cohort of students will come to the university without going through A-level exams. The aim of this module is to refresh their existing mathematical knowledge. It will be in a different style from A-levels, in a style of university level Mathematics.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Functions and polynomials. Summation and the binomial theorem. Linear equations and matrices. Trigonometric functions. Differentiation. Taylor series, the exponential and logarithm. Complex numbers. Integration.

Learning outcomes

By the end of the module, students should be able to:

- Subject knowledge and understanding: a good working knowledge of A-level mathematics and certain core items from further mathematics
- Cognitive skills: logical understanding of definition/theorem/proof method of doing Mathematics

International

It will be available to international students who have done other qualifications rather than A-levels

Subject specific skills

New level of understanding of the A-level mathematics and certain core items from further mathematics. Understanding of connections between different parts of mathematics. Understanding of proofs and examples.

Transferable skills

knowledge of mathematics and mathematical method

Study

Study time

Type	Required	Optional
Online learning (scheduled sessions)	(0%)	3 sessions of 45 minutes
Online learning (independent)	(0%)	25 sessions of 30 minutes
Assessment	4 hours (100%)	
Total	4 hours	

Private study description

No private study requirements defined for this module.

Costs

No further costs have been identified for this module.

Assessment

Students can register for this module without taking any assessment.

Assessment group A

	Study time
Test	1 hour
Test	1 hour
Test	2 hours

Feedback on assessment

As the module is weighted 0 CATS, the main method will be self-assessment. The students will mark their own tests and can redo them to their own satisfaction.

Availability

Courses

This module is Core for:

- UMAA-G100 Undergraduate Mathematics (BSc)
  - Year 1 of G100 Mathematics
  - Year 1 of G100 Mathematics
  - Year 1 of G100 Mathematics
- UMAA-G103 Undergraduate Mathematics (MMath)
  - Year 1 of G100 Mathematics
  - Year 1 of G103 Mathematics (MMath)
  - Year 1 of G103 Mathematics (MMath)
- Year 1 of UMAA-G106 Undergraduate Mathematics (MMath) with Study in Europe
- Year 1 of UMAA-G1NC Undergraduate Mathematics and Business Studies
- Year 1 of UMAA-G1N2 Undergraduate Mathematics and Business Studies (with Intercalated Year)
- Year 1 of UMAA-GL11 Undergraduate Mathematics and Economics
- UMAA-GV17 Undergraduate Mathematics and Philosophy
  - Year 1 of GV17 Mathematics and Philosophy
  - Year 1 of GV17 Mathematics and Philosophy
  - Year 1 of GV17 Mathematics and Philosophy
- UPXA-GF13 Undergraduate Mathematics and Physics (BSc)
  - Year 1 of GF13 Mathematics and Physics
  - Year 1 of GF13 Mathematics and Physics
- UPXA-FG31 Undergraduate Mathematics and Physics (MMathPhys)
  - Year 1 of GF13 Mathematics and Physics
  - Year 1 of FG31 Mathematics and Physics (MMathPhys)
  - Year 1 of FG31 Mathematics and Physics (MMathPhys)
- Year 1 of UMAA-G101 Undergraduate Mathematics with Intercalated Year

This module is Optional for:

- UPXA-GF13 Undergraduate Mathematics and Physics (BSc)
  - Year 1 of GF13 Mathematics and Physics
  - Year 1 of GF13 Mathematics and Physics
- Year 1 of UPXA-FG31 Undergraduate Mathematics and Physics (MMathPhys)