

# IB010-12 Intermediate Mathematics

**20/21**

**Department**

Warwick Business School

**Level**

Foundation

**Module leader**

Katy Hoad

**Credit value**

12

**Module duration**

10 weeks

**Assessment**

10% coursework, 90% exam

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

N/A.

[Module web page](#)

### Module aims

To equip students with the mathematical knowledge and skills necessary for successful subsequent degree-level study in Management.

To develop in students a critical awareness of the power of mathematical tools for business situations, and an appreciation of both their scope and limitations.

To equip students with the skills to interpret, report and critically appraise mathematical information.

To encourage students to take responsibility for their own learning, and to evaluate their own development.

Specific aims of the mathematics component of the module are:

1. To equip students with the mathematical foundations for successful completion of a WBS Management degree.
2. To develop in students the ability to apply logical reasoning to the solution of structured

problems, to recognise incorrect reasoning and to generalise arguments.

## **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.

Mathematics:

1. Algebra and inequalities
2. Exponentials and logarithms
3. Graphs
4. Differentiation
5. Sequences and series
6. Interpreting and reporting mathematical information (running through the term)

## **Learning outcomes**

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

- Solve mathematical problems to a good standard that will support their continued degree learning (e.g. GCSE grade A\* and some AS-level material).
- Quantitative understanding and confidence.
- Being able to express clear logical (maths) arguments and calculations.

## **Indicative reading list**

Barnett R, Ziegler M & Byleen K (2011) College Maths for Business, Economics, Life Sciences and Social Sciences (12th ed., Pearson).

Croft A & Davison R (2010) Foundation Maths (5th ed., Pearson).

Lial M, Hungerford T & Halcomb J (2013) Mathematics with Applications (10th ed., Pearson).

## **Subject specific skills**

Understand and be able to solve problems involving functions, algebra, graphs, series and sequences.

## **Transferable skills**

Ability to solve problems and express maths clearly and correctly.  
Increased quantitative confidence.

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## **Study**

## **Study time**

Type	Required
Lectures	36 sessions of 1 hour (30%)
Private study	30 hours (25%)
Assessment	54 hours (45%)
Total	120 hours

## Private study description

Private Study.

## Costs

No further costs have been identified for this module.

## Assessment

You do not need to pass all assessment components to pass the module.

### Assessment group D1

	Weighting	Study time
Class Test (12 CATS)	10%	5 hours
Online Examination	90%	49 hours

- Answerbook Green (8 page)
- Students may use a calculator
- Graph paper

## Feedback on assessment

Ongoing feedback provided orally and otherwise as appropriate in classes, via class work. Full solutions provided for structured exercises to allow students to see how successful they were at practising the techniques. Students will also be directed towards self-assessment exercises for further practice outside of formal contact hours and these will have full solutions and feedback. Full feedback will be provided on the class test so students can gauge their progress. Full feedback will be provided for the exam

[Past exam papers for IB010](#)

## Availability

## Courses

This module is Core for:

- Year 1 of UIBA-N4N4 Undergraduate Accounting and Finance (with Foundation Year)
- UIBA-N20A Undergraduate Management (with Foundation Year)
  - Year 1 of N20A Management (with Foundation Year)
  - Year 1 of N23A Management with Finance (with Foundation Year)
  - Year 1 of N25A Management with Marketing (with Foundation Year)