# **Liverpool** John Moores University

Title: CORE MATHS Status: Definitive

Code: **3504IFYAP** (107113)

Version Start Date: 01-08-2011

Owning School/Faculty: Liverpool Business School Teaching School/Faculty: Liverpool Business School

Team	Leader
Elizabeth Thompson	Υ

Academic Credit Total

Level: FHEQ3 Value: 12.00 Delivered 69.00

51

**Hours:** 

Total Private Learning 120 Study:

**Hours:** 

**Delivery Options** 

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours	
Lecture	66.000	

**Grading Basis:** 40 %

### **Assessment Details**

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	100.0	3.00

#### **Aims**

To provide the students with a basic knowledge of Mathematics relevant to first degree programmes and preparation for the development of mathematical applications in business-related subjects.

### **Learning Outcomes**

After completing the module the student should be able to:

1 Demonstrate an understanding of mathematical notation, terminology, conventions

and units.

- 2 Interpret in mathematical terms verbal, graphical and tabular information.
- 3 Manipulate mathematical expressions.
- 4 Apply mathematical methods and techniques.
- 5 Make inferences from mathematical interpretations.

### **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

EXAM 1 2 3 4 5

## **Outline Syllabus**

- 1. Basic Algebra, including linear, quadratic and simultaneous equations, simple formulae, arithmetic and geometric progressions.
- 2. Elementary Calculus to include simple theory of differentiation.
- 3. Elementary Probability and Statistics, including basic laws and simple theory of Statistics.
- 4. Business Arithmetic including compound interest, salary, VAT and tax and rates calculations and currency exchanges.

## **Learning Activities**

Explanatory lessons to and working examples with small classes, regular formative assignments, class tests and terminal module examination.

#### References

Course Material	Book
Author	Croft, A
Publishing Year	2006
Title	Foundation Mathematics
Subtitle	
Edition	
Publisher	Prentice Hall, USA
ISBN	9780131979215

#### **Notes**

The module aims to extend the student's knowledge of algebra and to introduce elementary calculus and simple statistical work to help him or her cope with the mathematical demands of business-based degree studies. It is also intended through the Business Arithmetic section in particular, but to some extent, throughout, to place the work of the student squarely in real-life business situations.