

## Liverpool John Moores University

Title: BUSINESS MATHEMATICS  
Status: Definitive  
Code: **3505BELBU** (101115)  
Version Start Date: 01-08-2011

Owning School/Faculty: Arts, Professional and Social Studies  
Teaching School/Faculty: Bellerby's College - Brighton

Team	Leader
Jarmila Hickman	Y

**Academic Level:** FHEQ3      **Credit Value:** 12.00      **Total Delivered Hours:** 69.00  
**Total Learning Hours:** 120      **Private Study:** 51

### Delivery Options

Course typically offered: Standard Year Long

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
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## 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

<b>Course Material</b>	Book
<b>Author</b>	Croft, A
<b>Publishing Year</b>	2006
<b>Title</b>	Foundation Mathematics
<b>Subtitle</b>	
<b>Edition</b>	4th Edition
<b>Publisher</b>	Prentice Hall, USA
<b>ISBN</b>	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.

