

## MODULE SPECIFICATION

**1. Title of the module**

Business Mathematics

**2. School or partner institution which will be responsible for management of the module**

Pearson College London

**3. The level of the module (e.g. Level 4, Level 5, Level 6 or Level 7)**

Level 4

**4. The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

**5. Which term(s) the module is to be taught in (or other teaching pattern)**

**This module can be run in any term:** Autumn, Spring, or Summer

**6. Prerequisite and co-requisite modules**

None

**7. The programmes of study to which the module contributes**

- |  |                 |
|--|-----------------|
| - BA (Hons) Business Management                                      | - option module |
| - BA (Hons) Business Management with Entrepreneurship                | - option module |
| - BA (Hons) Business Management with Finance                         | - option module |
| - BA (Hons) Business Management with Global Industries               | - option module |
| - BA (Hons) Business Management with Law                             | - option module |
| - BA (Hons) Business Management with Marketing                       | - option module |
| - BSc(Hons) Professional Accounting in Business                      | - core module   |
| - Integrated Masters in Advanced Professional Accounting in Business | - core module   |

**8. The intended subject specific learning outcomes.**

*On successfully completing the module students will be able to:*

- 8.1 Demonstrate the ability to apply key mathematics and numeracy techniques to well-defined problems.
- 8.2 Solve equations and inequalities.
- 8.3 Calculate probability and demonstrate the use of probability where risk and uncertainty exists
- 8.4 Apply techniques for analysing, presenting and summarising data and trends, with the use of spreadsheet-based analytical techniques where appropriate.
- 8.5 Demonstrate techniques used for forecasting, taking into account the future value of cash flows where appropriate to do so.

**9. The intended generic learning outcomes.**

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*On successfully completing the module students will be able to:*

- 9.1 Evaluate and interpret qualitative and quantitative data
- 9.2 Undertake further training and develop new skills within a structured and managed environment

### 10. A synopsis of the curriculum

This module aims to develop the mathematical tools and techniques required to manage business operations and make decisions. The syllabus will cover the mathematical elements of forecasting, risk and probability analysis, investment appraisal. The module will also help to ensure that learners are familiar with spreadsheet software packages, such as Microsoft Excel, that they are likely to need to use in the workplace.

The curriculum will cover:

- Basic numeracy and percentages
- Calculating formulae
- Solving simultaneous and quadratic equations and inequalities
- Probability theory and venn diagrams
- Tables, graphs, and diagrams
- Frequency distributions and the Pareto principal
- Correlation coefficients and regression analysis
- Forecasting and variance analysis
- Compounding, annuities and perpetuities
- Using spreadsheet packages and digital analytical techniques

### 11. Reading List (Indicative list, current at time of publication. Reading lists will be published annually)

- Clendenen, Salzan, Miller, *"Business Mathematics (latest edition)"*, Pearson
- CIMA P03 (Business Mathematics) Study text
- BBC Maths learning resources (<http://www.bbc.co.uk/learning/subjects/math.shtml>)
- Skills Workshop numeracy resources (<http://www.skillsworkshop.org/numeracy>)
- Chaney, Hawkins & Gaskin, "Skills for Success with Microsoft Excel 2016", Pearson

Access to a comprehensive online database of journal articles and other relevant publications on the Online Learning Environment.

### 12. Learning and Teaching methods

For full details please see the teaching and learning strategy in the programme specification. Students can study this module in the interactive classes model or the mentored independent model. Those on the former will typically experience one lecture and one seminar each week.

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Scheduled Hours:	25
Independent Study Hours:	125
Total Study Hours:	150

### 13. Assessment methods.

This module will be assessed by a 2 hour summative take-home exam to be completed over a 24 hour period (75% of overall grade) and a 1 hour summative progress take-home exam during week 6 to be completed over a 24 hour period (25% of overall grade).

### 14. Map of Module Learning Outcomes (sections 8 & 9) to Learning and Teaching Methods (section 12) and methods of Assessment (section 13)

Module learning outcome		8.1	8.2	8.3	8.4	8.5	9.1	9.2
Learning/teaching method	Hours allocated							
Private Study	125							X
Lectures	10	X	X	X	X	X		
Seminars	15	X	X	X	X	X	X	
Assessment method								
Take-home progress exam		X	X				X	
2 hour take-home exam		X	X	X	X	X	X	X

### 15. Pearson College London recognises and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching.

Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in consultation with the College's

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**Registry which oversees disability/dyslexia student support, and specialist support will be provided where needed.**

**16. Campus(es) or Centre(s) where module will be delivered:**

Pearson College London

**If the module is part of a programme in a Partner College or Validated Institution, please complete sections 17 and 18. If the module is not part of a programme in a Partner College or Validated Institution these sections can be deleted.**

**17. Partner College/Validated Institution:**

Pearson College London

**18. University School responsible for the programme:**

Kent Business School

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### FACULTIES SUPPORT OFFICE USE ONLY

**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

Date approved	Major/minor revision	Start date of the delivery of revised version	Section revised	Impacts PLOs (Q6&7 cover sheet)