

Module Details	
Module Title:	Quantitative Methods for Economists
Module Code:	AFE4013-B
Academic Year:	2019-20
Credit Rating:	20
School:	School of Management
Subject Area:	Accounting, Finance and Economics
FHEQ Level:	FHEQ Level 4
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	24
Tutorials	12
Directed Study	164

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims
To enhance your understanding of economic analysis by expanding your knowledge of the relevant mathematical and statistical methods with a range of applications across economics. We shall introduce the central quantitative methods used in economics, their problems and their solutions.

Outline Syllabus
Functions. Simultaneous equation solving. Linear algebra in matrix forms. Differential calculus. Constrained and unconstrained optimisation. Integration. Linear programming. Probability distribution: discrete and continuous random variables. Sampling theory and confidence intervals. Hypothesis testing.

Learning Outcomes	
1	Recognise, apply and discuss the fundamental tools of mathematics and mathematical statistics required for the understanding of economic and econometric analysis.
2	Apply foundation level quantitative methods to a range of economic problems.
3	3.1. Logical analysis and problem-solving. 3.2. Identify and explain appropriate approaches to solve economic and mathematical problems

Learning, Teaching and Assessment Strategy
The module will involve weekly lectures and biweekly seminars. The course will use tests in each semester to provide formative feedback to you on your progress, with summative assessment for the module being in the form of two examinations. The lectures and seminars will be supplemented with resources on the module VLE and MyMathLab.

Mode of Assessment				
Type	Method	Description	Length	Weighting
Summative	Examination - closed book	Closed Book Examination - semester 1	1.5 hours	50%
Summative	Examination - closed book	Closed Book Examination - Semester 2	1.5 hours	50%
Referral	Examination - closed book	Supplementary - Closed Book Examination	3 hours	100%

Reading List
To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html .

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.