

## ACADEMIC SERVICES

## **MODULE SPECIFICATION**

Part 1: Basic Data						
Module Title	Model Building in Economics I					
Module Code	UMEDHK-15-1		Level	1	Version 1	
UWE Credit Rating	15	ECTS Credit Rating	7.5	WBL modu	ile? No	
Owning Faculty	FBL		Field	Economics		
Department	AEF		Module Type	Standard		
Contributes towards	BSc(Hons) Eco	nomics				
Pre-requisites	None		Co- requisites	None		
Excluded Combinations	None		Module Entry requirements			
First CAP Approval Date	18 November 2015		Valid from	September 2016		
Revision CAP Approval Date			Revised with effect from			

## Review DateSeptember 2022

	Part 2: Learning and Teaching
Learning Outcomes	On successful completion of this module students will be able to:
	1. Show a clear understanding of which mathematical techniques are needed to solve equilibrium problems. (Components A and B)
	2. Use integration to calculate areas beneath a variety of different economic curves and functional forms. (Components A and B)
	3. Demonstrate the importance of maxima and minima in the building of economic models. (Components A and B)
	<ol> <li>Explain in words the economic implications of building mathematical models. (Components A and B)</li> </ol>
Syllabus Outline	This module introduces the student to the use of mathematics in economics. The main focus of the module will be to relate mathematical theory to economic theory.
	The module will typically cover topics such as:
	Basic algebra

Contact Hours
Teaching and Learning Methods

Key Information Sets Information	Key Inform	ation Set - Mo	odule data			
	Numbered	f credits for this	modulo		15	
	Number of		inodule		13	
P n	Hours to be allocated	Scheduled learning and teaching study hours	· ·	Placement study hours	Allocated Hours	
	150	36	114	0	150	<b>I</b>
	The table below indicates as a percentage the total assessment of the module which constitutes a: Written Exam: Unseen written exam Coursework: Written assignment Please note that this is the total of various types of assessment and will not necessarily reflect the component and module weightings in the Assessment section of this module description:					
	Т	otal assessm	ent of the mod	ule:		_
	V	/ritten exam as	ssessmentpe	rcentage	70%	7
	C	oursework as	sessment per	centage	30%	]
	Р	ractical exam	assessmentp	percentage	0%	
					100%	
Reading Strategy	Students will be directed and expected to undertake essential reading throughout the module. However, depending upon specific topics addressed over the course of the module, students will be expected to undertake additional reading for themselves. A list of indicative textbooks is provided below but students are expected to recognise that these may be starting points only and that they should extend their reading as widely as is necessary to demonstrate a comprehensive knowledge. <b>Blackboard</b> – This module is supported by Blackboard, where students will be able to find all necessary module documentation, including guidance on Further Reading within the module handbook/outline. Direct links to information resources will also be provided from within Blackboard <b>UWE Libraries</b> – Engagement with online resources available through the library will be a core requirement of this module. Students will also be directed towards the University Library online Study Skills resources at http://www1.uwe.ac.uk/students/studysupport/studyskills.aspx for the development of skills appropriate to the level and style of the module					
	texts to which they could refer. Students will be provided with a wide variety of written, audio and video texts that will be taken from recommended text books, journal articles, national and international newspapers and websites. Journal articles will be available electronically, or in the library. Students will be guided throughout the module as to the appropriate texts. Module guides will also reflect the range of reading to be carried out. Students will be told texts to read from books and from academic papers within the module handbook. Online videos and audio recordings will be recommended too of economists and policy makers.					
Indicative Reading List	There is no core Alpha.C. Chang Edition, McGraw	(2005), <i>Funda</i>	amental Metho			

Pemberton, M and Rau, N., (2011), <i>Mathematics for Economists: An Introductory Textbook</i> , Manchester University Press; 3rd Edition.
Renshaw, G (2011) Maths for Economics, 3rd edition, Oxford University Press.
Jacques, I (2012) Mathematics for Economics and Business, 7th edition, Pearson.

## Part 3: Assessment

Assessment Strategy	Both the examination and the piece of coursework will provide students with an opportunity to use their mathematical skills to solve a number of different economic questions. There will be an emphasis on technical understanding and appropriateness of method used. Throughout the module students will be made aware by frequent signposting and formative feedback on problem solving examples, that they need to explain what their solutions/answers mean in an economic context. The nature of the material being covered lends itself to using many different real life examples The Assessment: Component A: 2-hour written examination with a mixture of short and long questions.
	Component B: 2,000 word assignment that focusses on mathematical problem solving and economic interpretation.

Identify final assessment component and element	Component A		
% weighting between components A and B (Standard modules only)		A: 70%	B: 30%
First Sit Component A (controlled conditions)		Element	
Description of each element           1. Written Examination		(as % of co 100	• /
Component B Description of each element		Element weighting (as % of component)	
1. Written Assignment		100%	

Resit (further attendance at taught classes is not required)		
Component A (controlled conditions) Description of each element	Element weighting (as % of component)	
1. Written Examination	100%	
Component B Description of each element	Element weighting (as % of component)	
1. Written Assignment	100%	
If a student is permitted a retake of the module under the University Regulations and Procedures, the assessment will be that indicated by the Module Description at the time that retake commences.		