	UK LEVEL:	
(Updated Spring 2021)	UK CREDITS: 19 US CREDITS: 3/1/3	
PREREQUISITES:	EC 1000 Principles of Microeconomics EC 1101 principles of Macroeconomics MA 1008 College Algebra MA 2105 Applied Calculus MA 2021 Applied Statistics	
CATALOG DESCRIPTION:	Data categories, databases, applications of descriptive and inferential statistics in economics. Model building and use in economics. Model estimation.	
RATIONALE:	This is the first of two courses in Econometrics. This course develops students' ability to quantify and evaluate economic theories using empirical examples. The course focuses or economic intuition and practical applications of severa econometric methods that are widely employed in research in various fields in economics. Thus, the course combines theory and practice in an effort to provide students with the necessary tools and knowledge to apply to real-world situations.	
LEARNING OUTCOMES:	After taking this course, students should be able to:	
	 Draw inferences from the properties of data. Estimate the regression model, apply diagnostic tests and test hypotheses regarding the estimated parameters. Demonstrate knowledge of univariate and multivariate modelling methodologies and use them for forecasting purposes. Explain the concept of cointegration and error-correction mechanism, interpret the results of cointegration tests and estimate error-correction models. Estimate autoregressive conditional heteroskedastic (ARCH) specifications and some of its variants. 	
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and learning strategy of the college, the following tools are used:	
	 In-class exercises and examples to illustrate basic concepts. In-class discussion of journal articles in order to expand exposure on course content beyond the textbook and generate discussion. Laboratory practice sessions. Office Hours: Students are encouraged to make full use of the office hours of their instructor, where they can ask questions and go over lecture material. Use of Blackboard learning platform, where instructors post lecture notes, assignment instruction, timely announcements, as well as additional resources. Use of the Simulated Trading Room for data collection and analysis. 	

ASSESSMENT:	Summative:	
	1st assessment: Three assignments of equal weight each (600 – 800 words each)	60%
	Final assessment: In-class written	40%
	examination (Two-hour, closed book)	
	Formative:	
	Practice problem sets	0%
	Journal Articles	0%
	The three assignments test Learning Outcomes	1, 2, 3, 4, and 5.
	The final assessment tests Learning Outcomes	1, 2, 3, and 4.
	The formative assignments prepare students for and ensure that students are actively engaged of	
	Both summative and formative assignments made software (e.g. Eviews, STATA).	ke use of statistica
	The final grade for this module will be determine summative assessment grades, based on tweights for each assessment. If students pass tassessment that tests all Learning Outcomes for the average grade for the module is 40 or higher required to resit any failed assessments.	he predetermine the comprehensiv or this module an
INDICATIVE READING:	REQUIRED READING:	
	Wooldridge, J., Introductory Econometrics: A molatest edition.	odern Approach,
	Other library sources, including journal articles acc Library, as assigned by the instructor.	cessible through th
	RECOMMENDED READING:	
	Brooks, C. (2019). Introductory Econometric Cambridge. Cambridge University Press, 4 th edition	
	Stock, J. &Watson, M. (2019). Introduction to Edition. Pearson.	conometrics.4 th
INDICATIVE MATERIAL:	REQUIRED MATERIAL: N/A	
(e.g. audiovisual, digital material, etc.)	RECOMMENDED MATERIAL: N/A	
COMMUNICATION REQUIREMENTS:	Use of appropriate academic conventions as ap written communications.	plicable in oral an
SOFTWARE REQUIREMENTS:	Excel, Word, financial databases, economet Eviews, STATA)	ric software (e.ç
WWW RESOURCES:	www.ft.com www.bloomberg.com www.finance.yahoo.com	
INDICATIVE CONTENT:	Data analysis and Descriptive Statistics Statistical Inference Multiple regression and assumptions violation	ns

 4. Cross-sectional analysis 5. Univariate Time Series Modelling 5. Multivariate modelling techniques 6. Stationarity, cointegration and causality relationships 7. Volatility and correlation modelling
