



Module Specification

Econometrics

Version: 2027-28, v3.0, Approved

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Part 1: Information

Module title: Econometrics

Module code: UMED96-15-3

Level: Level 6

For implementation from: 2027-28

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Business and Law

School: CBL Bristol Business School

Partner institutions: None

Field: Economics

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This Level 6 elective module aims to equip students with a comprehensive understanding of advanced econometric methods. It builds on the Level 5 module “Economic Research Skills with Professional Advancement,” adding econometric techniques for more complex data analysis.

Features: Not applicable

Educational aims: In addition to the assessed Learning Outcomes, the educational experience will allow students to hone their analytical skills and develop valuable skills that are relevant across a variety of data-driven professional roles.

A special focus rests on guiding students toward identifying analytical problems and developing problem-solving strategies both independently and collaboratively. This will be achieved by performing advanced econometric analysis and interpreting results. Moreover, students will refine digital skills and competencies through practical applications using statistical software. By acquiring the ability to apply existing knowledge and skills to solve complex problems in a new context students will be empowered to develop and express their opinions. Eventually, by disseminating analytical findings in a concise form students will also be enabled to shape professional discussions.

Outline syllabus: This module will typically cover advanced methods used in econometric and time series analyses:

Limited dependent variable regression models

Instrumental variable estimation

Panel data models

ARMA (Autoregressive moving-average) models

VAR (Vector autoregressive) models

Unit root processes

Part 3: Teaching and learning methods

Teaching and learning methods: Module delivery will be based on scheduled learning and teaching activities.

Lectures will be used to introduce the techniques to be employed in the module. Computing sessions will afford an opportunity for students to apply the techniques that have been introduced in lectures to selected economic problems. Students will work through a series of questions on a specific topic and will receive guidance on how to answer these questions. Computing sessions will be based in computer

rooms and will emphasise the critical analysis of empirical output and the application and practise with a suitable econometrics software package.

In line with UWE's 3P framework, students are expected to actively advance and enhance their learning journey. To achieve this goal, they will have to:

Prepare - Students are encouraged to explore the learning materials as soon as they are released and before they join a teaching session. Multiple contact points with relevant content and the revision of lecture content will deepen their understanding. This enables students to process new content more easily and facilitate learning activities in practical sessions.

Participate - Active engagement with teaching activities can take many forms. Asking questions and voicing opinions enriches the learning experience in lectures. Collaborative problem-solving and active participation in discussions in practical sessions give rise to an enhanced learning environment.

Practise - Recognising that learning is an ongoing process, students continue their skill development outside of scheduled learning activities, for instance by further exploring the used econometrics software package. Individual and collaborative regular revision activities are essential to achieve essential learning outcomes and individual growth.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Apply and evaluate the concepts, assumptions, and limitations related to advanced econometric and time series methods.

MO2 Conduct empirical economic analyses and interpret the findings to a given problem.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/umed96-15-3.html) via the following link <https://uwe.rl.talis.com/modules/umed96-15-3.html>

Part 4: Assessment

Assessment strategy: This module deploys a mix of formative and summative assessments.

Formative assessment will occur throughout the module; it will include peer feedback and informal activities. In particular, students are required each week to carry out specific computer-based tasks using specialist econometric software, relating to the econometric problems covered in the module. Feedback will be provided from tutors and peers. The aim is to provide students with an appreciation of the uses and limitations of econometric techniques and to develop their skills in the practical application and interpretation of such techniques.

The summative assessment consists of a data project with a written report (2,000 words). Based on a set of distinct problems, students demonstrate their ability to conduct the essential steps encountered in econometric and time series analyses, as well as to report their findings in a concise yet informative manner.

Assessment tasks:

Report (First Sit)

Description: 2,000-word report related to an empirical analysis.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

Report (Resit)

Description: 2,000-word report related to an empirical analysis.

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Banking and Finance [NEU] - WITHDRAWN BSc (Hons) 2025-26

Business Management and Economics {Foundation} [Frenchay] BA (Hons) 2023-24

Economics {Foundation} [Frenchay] BA (Hons) 2023-24

Economics {Foundation} [Frenchay] BSc (Hons) 2023-24

Banking and Finance {Foundation} [Frenchay] BSc (Hons) 2023-24

Economics [Frenchay] BA (Hons) 2024-25

Business Management and Economics [Frenchay] BA (Hons) 2024-25

Business Management and Economics {Foundation} [Frenchay] - WITHDRAWN BA (Hons) 2024-25

Economics {Foundation} [Frenchay] - WITHDRAWN BA (Hons) 2024-25

Business Management and Economics [Villa] BA (Hons) 2024-25

Banking and Finance {Foundation} [Frenchay] - WITHDRAWN BSc (Hons) 2024-25

Banking and Finance [Frenchay] BSc (Hons) 2024-25

Economics [Frenchay] BSc (Hons) 2024-25

Economics {Foundation} [Frenchay] - WITHDRAWN BSc (Hons) 2024-25

Economics {Foundation}[Frenchay] BA (Hons) 2024-25

Economics {Dual} [Taylors] BA (Hons) 2025-26

Economics [Frenchay] BA (Hons) 2025-26

Economics [Frenchay] - WITHDRAWN BA (Hons) 2025-26

Business Management and Economics [Frenchay] - WITHDRAWN BA (Hons) 2025-26

Business Management and Economics [Villa] - WITHDRAWN BA (Hons) 2025-26

Banking and Finance [Frenchay] - WITHDRAWN BSc (Hons) 2025-26

Economics [Frenchay] - WITHDRAWN BSc (Hons) 2025-26

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Economics {Foundation} [Frenchay] BSc (Hons) 2023-24