



## **Module Specification**

### **Statistics and Data Management**

Version: 2023-24, v3.0, 31 May 2023

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## Part 1: Information

**Module title:** Statistics and Data Management

**Module code:** UMED8J-15-1

**Level:** Level 4

**For implementation from:** 2023-24

**UWE credit rating:** 15

**ECTS credit rating:** 7.5

**Faculty:** Faculty of Business & Law

**Department:** FBL Dept of Accounting Economics & Finance

**Partner institutions:** None

**Delivery locations:** Not in use for Modules

**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:** Not applicable

**Features:** Not applicable

**Educational aims:** In addition to the Learning Outcomes, the educational experience may explore, develop, and practise but not formally discretely assess the following:

The student's skills on beginning the module.

Time management skills.

Effective communication using written and verbal media.

Independent and interdependent (group) working.

**Outline syllabus:** Uses, abuses and limitations of statistical analysis.

Handling data in Excel.

Data sources and their identification.

Types of data and their application.

Measures of location and dispersion.

Frequency and probability distributions.

Statistical hypothesis testing.

Correlation and causation.

Introduction to regression analysis.

### **Part 3: Teaching and learning methods**

**Teaching and learning methods:** Module delivery will be based on 3 hours of scheduled learning and teaching activities per teaching week. This will consist of an alternating pattern of one lecture, two seminars/workshops in one week, and two lectures and one seminar/workshop the next week.

Lectures will focus on core material, with a particular focus on statistical theory and application, and the workings of Excel. Seminars will focus on revising and practising the lecture material. Workshops will be based in computer rooms and will emphasise

electronic data collection and application and practice with Excel.

In addition staff will be available during the semester during their office hours (2 hours a week) for face to face meetings.

Queries and extended discussions with staff can also be approached virtually through e-mail.

Extensive use will be made of Blackboard for weekly guided independent study work; to support students' learning; to facilitate interactions between students e.g. for group project work and to provide feedback with quizzes and forums.

Students will also be directed towards the University Library online Study Skills resources <http://www1.uwe.ac.uk/students/studysupport/studyskills.aspx> for the development of skills appropriate to the level and style of the module. In addition a number of e-learning resources will also be used:

(Of particular interest will be the pages on 'Being a student at level 1')

Learn Higher <http://www.learnhigher.ac.uk/Students.html>

Espresso Maths <http://www.cems.uwe.ac.uk/mslc/>

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

**MO1** An awareness of the uses, abuses (and therefore proper use) and limitations of statistical data in economics, accounting and finance

**MO2** An ability to manage, manipulate and analyse data using Excel

**MO3** A command of foundational statistical concepts such as measures of location and dispersion, association and causation

**MO4** Competence in testing hypotheses using statistical methods

**Hours to be allocated:** 150

**Contact hours:**

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Total = 150

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/umed8j-15-1.html) via the following link <https://uwe.rl.talis.com/modules/umed8j-15-1.html>

## Part 4: Assessment

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

Formative assessment takes various forms and will occur throughout the module; it may include peer feedback on informal activities. The module will begin with a skills audit.

Summative assessment will be multi-faceted. The first opportunity for summative assessment is a guided practical project. The examination will assess the entire module content and will occur at the end of the module.

### Summative Assessment

#### Task A:

An end-of-module exam (2 hours) . The exam will consist of a variety of question types including, for instance, multiple choice questions, data response and a longer response (essay) question.

#### Task B:

A 1,500 word data management project asks students to demonstrate skills of obtaining, manipulating and analysing data using Excel; and to display the ability to comment coherently on economic, financial and statistical data.

### Formative Assessment:

Engagement with other students in seminars that encourages a sense of belonging.  
Engagement with external speakers and with private sector businesses.

Regular VLE messages, including podcasts, provide generic feedback to groups on lectures, seminars and practical classes.

**Assessment components:****Project (First Sit)**

Description: 1,500 word data project

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2

**Examination (First Sit)**

Description: Examination (on campus) (2 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Project (Resit)**

Description: 1,500 word data project

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO2

**Examination (Resit)**

Description: Examination ( on campus) (2 hours)

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

**Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Accounting and Finance [Phenikaa] BA (Hons) 2023-24

Economics [Frenchay] BA (Hons) 2023-24

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

Business Management and Economics [Villa] BA (Hons) 2023-24

Accounting and Finance [Frenchay] BA (Hons) 2023-24

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

Economics [Frenchay] BSc (Hons) 2023-24

Economics {Dual} [Taylors] BA (Hons) 2023-24

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

Accounting [Frenchay] BSc (Hons) 2023-24

Accounting and Finance [Villa] BSc (Hons) 2023-24

Economics {Foundation} [Frenchay] BA (Hons) 2022-23

Economics {Foundation} [Frenchay] BSc (Hons) 2022-23

Business Management and Economics {Foundation} [Frenchay] BA (Hons) 2022-23

Accounting {Foundation} [Frenchay] BSc (Hons) 2022-23

Economics {Foundation} [Sep][FT][Frenchay][4yrs] BSc (Hons) 2022-23

Economics {Foundation} [Sep][SW][Frenchay][5yrs] BSc (Hons) 2022-23

Business Management with Accounting and Finance {Foundation}

[Sep][FT][Frenchay][4yrs] - Withdrawn BA (Hons) 2022-23

Business Management with Accounting and Finance {Foundation}

[Sep][SW][Frenchay][5yrs] - Withdrawn BA (Hons) 2022-23

Accounting and Business Management {Foundation} [Sep][SW][Frenchay][5yrs] BA (Hons) 2022-23

Accounting and Business Management {Foundation} [Sep][FT][Frenchay][4yrs] BA  
(Hons) 2022-23

Accounting and Finance {Foundation} [Frenchay] BA (Hons) 2022-23

Banking and Finance {Foundation} [Frenchay] BSc (Hons) 2022-23