

# ET215-15 Quantitative Research Methods

**24/25**

**Department**

Applied Linguistics

**Level**

Undergraduate Level 2

**Module leader**

Clay Beckner

**Credit value**

15

**Module duration**

10 weeks

**Assessment**

60% coursework, 40% exam

**Study location**

University of Warwick main campus, Coventry

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## Description

### Introductory description

Quantitative research is an essential aspect of the social sciences and includes sampling methods and research designs such as experiments and quasi-experiments. Moreover, this module will help you to be confident in producing descriptive statistics and inferential statistical analyses like t-tests and correlations. These skills will be very useful not only for your academic studies, but also in your subsequent career.

[Module web page](#)

### Module aims

This module aims to introduce selected data collection methods and analytical options relevant to language, culture and communication. This will further include the development of relevant skills in data collection and analysis as well as to engage critically with current issues in researching language, culture and communication using quantitative methods. Thus, this module will provide a solid foundation in relevant research skills and methods to allow students to undertake an in-depth study of issues relating to intercultural linguistics.

## Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

The nature of quantitative research

Major principles of conducting quantitative research, strengths and weaknesses, etc.

Purpose of quantitative studies (descriptive, explorative, evaluative, predictive, explanatory, etc.)

Systematically designing quantitative research designs

The quantitative research process: An overview

Types of variables (nominal, ordinal, interval)

From research question to hypothesis

Overview and examples of basic quantitative research designs

Experimental designs, quasi-experimental/ ex-post facto designs, etc

Data collection procedures

Sampling techniques (e.g. random sampling, etc.)

Descriptive statistics: Theory and practice

Definition and use

Types of descriptive statistics (mean, median, quartiles, standard deviation, etc.)

Correlation analysis

Definition and use

Types of correlations (parametric, non-parametric, partial correlations, etc.)

## Learning outcomes

By the end of the module, students should be able to:

- Identify different approaches to quantitative research and paradigmatic orientations underlying this methodological approach to analyse social phenomena  
Critically evaluate data collection procedures and their impact on quantitative research designs  
Describe and present relevant procedures for analysing data quantitatively  
Critically assess research designs applied in published work

## Indicative reading list

Agresti, A. & Finlay, B. (2008). *Statistical methods for the social sciences* (4th ed.). Upper Saddle River: Pearson Prentice Hall.

Creswell, J. W. (1998). *Qualitative Inquiry And Research Design: Choosing Among Five Traditions*. Sage Publications, London, New Delhi

Black, T.R. (1999). *Doing quantitative research in the social sciences: An integrated approach to research design, measurement and statistics*. Thousand Oaks: Sage.

[View reading list on Talis Aspire](#)

## Research element

Students will learn how to think critically about quantitative research methods, and will explore how to apply these methods in Applied Linguistics.

## **Interdisciplinary**

This module integrates topics from Applied Linguistics, statistics and mathematics and illustrates principles using examples from across the social sciences, humanities and education.

## **Subject specific skills**

Apply proper quantitative procedures in context and understand their limitations

Work and communicate effectively in multicultural teams

Systematically plan small-scale quantitative research studies

Know and properly apply key terminology related to quantitative research designs

Formulate precisely focused, answerable research questions and hypotheses

Identify relationships between different approaches of quantitative enquiries and understand their limitations and application in context

Perform basic statistical procedures and interpret them properly

## **Transferable skills**

Systematically use analytical tools to find answers to defined research questions and hypotheses

Communicate and work effectively in teams

Present quantitative findings succinctly but precisely using key terminology

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## **Study**

### **Study time**

<b>Type</b>	<b>Required</b>
Lectures	9 sessions of 2 hours (12%)
Seminars	9 sessions of 1 hour (6%)
Other activity	4 hours (3%)
Private study	119 hours (79%)
Total	150 hours

### **Private study description**

Reading subject materials

Homework tasks

Assignments

Revision

### **Other activity description**

Revision classes

## Costs

No further costs have been identified for this module.

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## Assessment

You do not need to pass all assessment components to pass the module.

### Assessment group D2

	Weighting	Study time
2000 word assignment	60%	
On-campus Examination	40%	

- Answerbook Pink (12 page)

### Feedback on assessment

Written feedback will be provided on one of the Centre's standard feedback sheets, designed to conform to Faculty regulations. Where appropriate, additional feedback may be provided via personal meetings during office hours and individual arrangements.

[Past exam papers for ET215](#)

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## Availability

### Courses

This module is Core for:

- Year 3 of UETA-X3Q5 Undergraduate Language, Culture and Communication
- Year 4 of UETA-X3Q8 Undergraduate Language, Culture and Communication (with Intercalated Year)
- Year 3 of UETA-Q310 in English Language and Linguistics
- Year 4 of UETA-Q311 in English Language and Linguistics (with Intercalated year)

This module is Core optional for:

- Year 3 of UETA-Q1T6 Undergraduate Linguistics with Arabic
- Year 2 of UETA-Q1A9 Undergraduate Linguistics with Arabic (with Intercalated Year)
- Year 2 of UETA-Q1A7 Undergraduate Linguistics with Chinese (with Intercalated Year)

- Year 2 of UETA-Q1A1 Undergraduate Linguistics with French (with Intercalated Year)
- Year 2 of UETA-Q1R2 Undergraduate Linguistics with German
- Year 2 of UETA-Q1A2 Undergraduate Linguistics with German (with Intercalated Year)
- Year 2 of UETA-Q1A8 Undergraduate Linguistics with Japanese (with Intercalated Year)
- Year 2 of UETA-Q1A6 Undergraduate Linguistics with Russian (with Intercalated Year)
- Year 2 of UETA-Q1A4 Undergraduate Linguistics with Spanish (with Intercalated Year)
- Year 3 of ULNA-R9QB Undergraduate Modern Languages with Linguistics (3 year)

This module is Optional for:

- Year 4 of ULNA-R1Q3 Undergraduate French and Linguistics
- Year 4 of UETA-Q1A9 Undergraduate Linguistics with Arabic (with Intercalated Year)
- Year 3 of UETA-Q1T1 Undergraduate Linguistics with Chinese
- UETA-Q1A7 Undergraduate Linguistics with Chinese (with Intercalated Year)
  - Year 2 of Q1A7 Linguistics with Chinese (with Intercalated Year)
  - Year 4 of Q1A7 Linguistics with Chinese (with Intercalated Year)
- UETA-Q1R1 Undergraduate Linguistics with French
  - Year 2 of Q1R1 Linguistics with French
  - Year 3 of Q1R1 Linguistics with French
- UETA-Q1A1 Undergraduate Linguistics with French (with Intercalated Year)
  - Year 3 of Q1A1 Linguistics with French (with Intercalated Year)
  - Year 4 of Q1A1 Linguistics with French (with Intercalated Year)
- UETA-Q1A2 Undergraduate Linguistics with German (with Intercalated Year)
  - Year 2 of Q1A2 Linguistics with German (with Intercalated Year)
  - Year 4 of Q1A2 Linguistics with German (with Intercalated Year)
- Year 3 of UETA-Q1T2 Undergraduate Linguistics with Japanese
- UETA-Q1A8 Undergraduate Linguistics with Japanese (with Intercalated Year)
  - Year 3 of Q1A8 Linguistics with Japanese (with Intercalated Year)
  - Year 4 of Q1A8 Linguistics with Japanese (with Intercalated Year)
- Year 3 of UETA-Q1R5 Undergraduate Linguistics with Portuguese
- UETA-Q1A6 Undergraduate Linguistics with Russian (with Intercalated Year)
  - Year 2 of Q1A6 Linguistics with Russian (with Intercalated Year)
  - Year 4 of Q1A6 Linguistics with Russian (with Intercalated Year)
- Year 3 of UETA-Q1R4 Undergraduate Linguistics with Spanish
- UETA-Q1A4 Undergraduate Linguistics with Spanish (with Intercalated Year)
  - Year 3 of Q1A4 Linguistics with Spanish (with Intercalated Year)
  - Year 4 of Q1A4 Linguistics with Spanish (with Intercalated Year)

This module is Core option list A for:

- Year 4 of ULNA-R9Q2 Undergraduate Modern Languages with Linguistics

This module is Core option list B for:

- Year 4 of ULNA-R9Q1 Undergraduate Modern Languages and Linguistics

This module is Core option list C for:

- Year 4 of ULNA-R4Q1 Undergraduate Hispanic Studies and Linguistics

This module is Option list A for:

- Year 4 of ULNA-R9Q1 Undergraduate Modern Languages and Linguistics

This module is Option list C for:

- Year 3 of ULNA-R1Q4 Undergraduate French and Linguistics (3 year)

This module is Option list D for:

- Year 4 of ULNA-R2Q3 Undergraduate German and Linguistics