

## Liverpool John Moores University

Title: Research Methods for Environmental Health  
Status: Definitive  
Code: **5004ENVCPH** (121547)  
Version Start Date: 01-08-2021

Owning School/Faculty: Public Health Institute  
Teaching School/Faculty: Public Health Institute

Team	Leader
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**Academic Level:** FHEQ5      **Credit Value:** 20      **Total Delivered Hours:** 50  
**Total Learning Hours:** 200      **Private Study:** 150

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	44
Tutorial	4

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	ASS2	Ethics application word limit not fixed but not more than 2500 words	60	
Exam	ASS1	Two hour exam	40	2

### Aims

*This module aims to provide students with an introduction to the methods of qualitative and quantitative data collection and analysis, as well as enabling students to critically evaluate the strengths and weaknesses of published research papers.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Critically evaluate published research.
- 2 Determine appropriate research questions and hypotheses
- 3 Select and apply relevant tools for qualitative and quantitative data collection and analysis.
- 4 Apply ethical principles to the design of a research project
- 5 Combine the skills and knowledge gained to construct a research proposal.

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

2500 word research proposal	1	2	3	4	5
2 hour exam	1	2	3		

## Outline Syllabus

1. *Research paradigms and approaches*
2. *Conducting a literature search and critical review*
3. *Determining and suitable research questions and hypotheses*
4. *Qualitative and quantitative data collection methods and instruments e.g. survey, interview, questionnaire, observation, focus groups, experiments and analytic study design*
5. *Statistical methods of data analysis: descriptive statistics, correlations & hypothesis testing.*
6. *Analysis of qualitative data*
7. *Ethics in research*
8. *Preparing a research proposal*

## Learning Activities

The module will be delivered through lectures, individual and group activities, seminars LRC visits, Canvas and personal tutorials.

## Notes

This module is designed to provide students with the skills, knowledge and understanding of the ways in which environmental health research is undertaken. It does this by providing students with an understanding of the various approaches and methodologies that are used in environmental health research, and of the process of critically appraising the research of others and applying the results of this appraisal to their own knowledge-base.

