

## Liverpool John Moores University

Title: RESEARCH FOR ENVIRONMENTAL HEALTH  
Status: Definitive  
Code: **5004ENVHEA** (116482)  
Version Start Date: 01-08-2020  
  
Owning School/Faculty: Public Health Institute  
Teaching School/Faculty: Public Health Institute

Team	Leader
Lorna Porcellato	Y
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**Academic Level:** FHEQ5      **Credit Value:** 24      **Total Delivered Hours:** 50  
**Total Learning Hours:** 240      **Private Study:** 190

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	44
Practical	4

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	exam		40	2
Essay	proposal		60	

### 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:

exam	1	2	3		
research proposal	1	2	3	4	5

### **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, blackboard 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.