

Summary Information

Module Code	7121NATSCI
Formal Module Title	Research Methods
Owning School	Biological and Environmental Sciences
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Alexandre Gagnon	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
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Partner Module Team

Contact Name	Applies to all offerings	Offerings
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Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Learning Methods

Learning Method Type	Hours
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Lecture	18
Practical	16
Workshop	6

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	- To train students in the process of planning and executing an independent research project using appropriate methodological design.- To familiarise students with qualitative, quantitative and mixed-methods of data collection and analysis.- To develop research reporting skills through written and oral methods.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Identify a research question, problem or hypothesis and establish appropriate aims, objectives and methods to support the investigation.
MLO2	Collate and critically discuss the existing literature in a chosen field in a written review.
MLO3	Source, collect and analyse relevant and original qualitative and/or quantitative data.
MLO4	Successfully communicate the purpose, methodology and results of a research project.

Module Content

Outline Syllabus
Approaches to research design and planning. Formulating and testing research questions. Hypothesis setting. Sourcing, reviewing and referencing literature. Introduction to Geographical data - primary/secondary data, spatial/non-spatial, quantitative/qualitative data. Sampling design and error. Numerical methods appropriate for geographical datasets. Communication skills beyond report writing.

Module Overview
This module covers all aspects of how to plan and execute a research project.

Additional Information

This module will deliver information on the fundamentals of research.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Presentation	Portfolio of research work	100	0	MLO2, MLO4, MLO3, MLO1