Liverpool John Moores University

Title:	RESEARCH PROJECT
Status:	Definitive
Code:	**7130NATSCI** (126197)
Version Start Date:	01-08-2021
Owning School/Faculty:	Biological and Environmental Sciences
Teaching School/Faculty:	Biological and Environmental Sciences

Team	Leader
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Academic Level:	FHEQ7	**Credit Value:**	60	**Total Delivered Hours:**	27
Total Learning Hours:	600	**Private Study:**	573		

Delivery Options
Course typically offered: Summer

Component	Contact Hours
Lecture	2
Tutorial	25

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	Conference	Oral presentation (15 min approx.) and defence (30 min approx.) of the project in the form of a conference	30	1
Dissertation	Manuscript	Writing-up of project in the format of journal article + supplementary material	70	

Aims

To enable the student to gain deeper knowledge in a scientific topic of their interest, while developing advanced research skills, including laboratory, field-based, questionnaire-based, and/or computer-based techniques, and improving their critical and analytical skills.

Learning Outcomes

After completing the module the student should be able to:

1 Search, review and critically appraise relevant scientific literature
2 Design and implement an experimental protocol, addressing all ethical and methodological aspects
3 Analyse, interpret and discuss experimental data correctly
4 Communicate science in a professional manner, both written and orally

Learning Outcomes of Assessments

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

Oral presentation	3	4		
Journal style	1	2	3	4

Outline Syllabus

This is a student-led research project, where the student can choose a topic of their interest within the broad spectrum of the staff's expertise. It will be usually conducted in the laboratory but also through administration of surveys, questionnaires and computer analysis. The student will count on the guidance of up to two supervisors, but will be encouraged to work independently. The student will have the opportunity to develop research, analytical, and problem-solving skills, and to make a contribution to the scientific area of their interest.

Learning Activities

Learning will be independent, supported by one-to-one tutorial sessions with the

supervisor(s), who will guide the student through the formulation of hypothesis and objectives, obtaining ethical approval (when required), learning the techniques necessary to conduct the data collection and analysis, and well as through the write-up. A conference-style session will enable the student to receive feedback on their work and to discuss their project, including methodological aspects and interpretation of results and their significance.

Notes

This new Research Project module will prepare students for independent scientific work, covering all aspects of the research process, including design, ethical approval, impact, data collection and analysis, and presentation (orally and in written).