Biomedical Science Honours Project

Module Information

2022.01, Approved

Summary Information

Module Code	6113BMBMOL
Formal Module Title	Biomedical Science Honours Project
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	40
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	10
Practical	94
Tutorial	6
Workshop	10

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	28 Weeks

Aims and Outcomes

Aims	Final year projects aim to enrich the student experience, develop research skills, and to promote independent learning and enhance the employability of students.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Work independently or part of a group/team as required to address a particular biomedical science question or topic
MLO2	2	Be able to search for and critically review the literature in a particular field
MLO3	3	Develop critical and creative thinking skills (to develop ideas, and perform data analysis and evaluation)
MLO4	4	Gain experience in the scientific method and develop problem solving skills, e.g. how to design experiments or develop evaluation strategies to test hypotheses.
MLO5	5	Effectively communicate the outcomes of their work by means of a written document and oral presentation

Module Content

Outline Syllabus	At the completion of the project students should be able to Work independently or part of a group/team as required to address a particular biomedical science question or topicBe able to search for and critically review the literature in a particular field Develop critical and creative thinking skills (to develop ideas, and perform data analysis and evaluation)Gain experience in the scientific method and develop problem solving skills, e.g. how to design experiments or develop evaluation strategies to test hypotheses.Develop communication skills, including:Write a project report Develop oral presentation skills Liaise with supervisor, other staff, students or the general public as appropriateAcquire project-specific skills (e.g. lab skills, use of software or other technological applications, researching historical sources.
Module Overview	
Additional Information	A varied range of projects will be offered to the undergraduate students. As well as the more traditional laboratory based projects alternative approaches to research projects will also be offered including:Systematic Reviews with meta-analysis: a defined, systematic way of undertaking a comprehensive review of the literature, assessing sensitivity and specificity of laboratory testing.Surveys/Focus Groups: Any topic/area, of students, staff or the public. Could investigate public attitudes/knowledge of antimicrobial resistance; Interaction of laboratories and cliniciansBioinformatics/Big data: using bioinformatics tools to mine/interrogate (e.g. genomic) datasets. Analysis and interpretation of large publicly available datasets.Grant proposal: rather than grant proposal as an extension exercise, it becomes the principal output. Sections within it are those in real grant applications to funding bodies e.g. Biotechnology and Biological Sciences Research Council (BBSRC) or Medical Research Council (MRC.) “Pilot” data comes from previous studies in the supervisor’s lab.Educational Development: creation and evaluation of educational resources for use in undergraduate education. Ideal opportunity for student to re-purpose existing face 2 face practical into online version or create online problem solving or data handling/analysis exercise

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Dissertation	Project Report (10000 words)	70	0	MLO1, MLO2, MLO3, MLO4, MLO5

Presentation	Project Presentation	30	0	MLO1, MLO2, MLO3, MLO4, MLO5

Module Contacts