

Module Information

2022.01, Approved

Summary Information

Module Code	4113BCBMOL
Formal Module Title	Practical and Employability Skills in Biochemistry
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	22
Practical	10
Tutorial	5
Workshop	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	To facilitate effective study of Biochemistry by providing a foundation in employability, communication and research skills, data handling, statistics, IT, laboratory techniques and underpinning theory. Students will have the opportunity to identify and reflect upon aspects of personal development and employability will be a strong thread embedded throughout the module. The module will be delivered via a mixture of lectures, practicals, workshops and tutorials.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Apply numerical and statistical methods to the presentation and interpretation of scientific data
MLO2	2	Locate and analyse scientific information from a wide range of sources and communicate this effectively
MLO3	3	Demonstrate an understanding of practical methodology
MLO4	4	Identify and reflect upon the following aspects of self-awareness in respect of personal development and career planning: strengths and weaknesses, motivations and values, ability to work with others.

Module Content

Outline Syllabus	Employability: Careers, PDP, reflection, self awareness in respect of self development, career researching, graduate opportunities for biochemistry graduates. Study skills: The presentation of written material including essays, practical reports and graphical and tabular presentation of data. Oral presentation. Numeracy: Algebra, powers, orders of magnitude and logarithmic scales. Expression of results, significant figures, linear equations. Basic statistics. Concepts linked to basic laboratory calculations on concentration, amount, dilution, pH and buffers. Information technology: Introduction to the LJMU PC network and webpages. Word processing and spreadsheets, graphical representation of data, email and the world wide web. General laboratory skills: Introduction to health and safety. The laboratory notebook. Laboratory skills such as use of equipment, preparation of solutions and dilutions and measurement of concentration. Lecture material may include study skills, health and safety, basic laboratory techniques, basic numeracy, basic statistics, spectroscopy, pH and buffers, chromatography and electrophoresis. Tutorials will include PDP, SWOT, career planning, employability material, literature searching, formative and summative essay writing and oral presentation. Tutorials and workshops will reinforce material delivered in lectures.
Module Overview	The aim of this module is to facilitate effective study of Biochemistry by providing a foundation in employability, communication and research skills, data handling, statistics, IT, laboratory techniques and underpinning theory. You will have the opportunity to identify and reflect upon aspects of personal development and employability will a strong thread embedded throughout the module.
Additional Information	To facilitate effective study of Biochemistry by providing a foundation in employability, communication and research skills, data handling, statistics, IT, laboratory techniques and underpinning theory. Students will have the opportunity to identify and reflect upon aspects of personal development and employability will a strong thread embedded throughout the module. The module will be delivered via a mixture of lectures, practicals, workshops and tutorials.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Exam	60	2	MLO1, MLO3

Future Focus e-learning task	Self Awareness Statement	10	0	MLO4
Portfolio	Portfolio	30	0	MLO3, MLO2, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Amanda Reid	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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