Liverpool John Moores University

Title:	PRACTICAL SKILLS IN BIOCHEMISTRY
Status:	Definitive
Code:	4101BCBMOL (122481)
Version Start Date:	01-08-2021
Owning School/Faculty:	Pharmacy & Biomolecular Sciences
Teaching School/Faculty:	Pharmacy & Biomolecular Sciences

Team	Leader
Amanda Reid	Y
lain Dykes	
Kehinde Ross	
Andrew Powell	
Helen Burrell	
Helen Smalley	
Glyn Hobbs	

Academic Level:	FHEQ4	Credit Value:	20	Total Delivered Hours:	62
Total Learning Hours:	200	Private Study:	138		

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	22
Practical	10
Tutorial	6
Workshop	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Exam	60	2
Presentation	Oral	Oral presentation	40	

Aims

To facilitate effective study of Biochemistry by providing a foundation in communication and research skills, data handling, IT, laboratory techniques and underpinning theory. The module will be delivered via a mixture of lectures, practicals, workshops and tutorials.

Learning Outcomes

After completing the module the student should be able to:

- 1 Apply numerical and statistical methods to the presentation and interpretation of scientific data.
- 2 Locate and analyse scientific information from a wide range of sources and communicate this effectively.

Learning Outcomes of Assessments

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

Written exam	1	2
Oral presentation	1	2

Outline Syllabus

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 literature searching, formative essay writing and oral presentation. Tutorials and workshops will reinforce material delivered in lectures.

Learning Activities

Lectures, workshops, practicals, tutorials, PDP.

Notes

This module will provide support for PDP. As tutorials are within the module students will have small group teaching sessions and individual feedback on tutorial work.