Liverpool John Moores University

Title:	PRACTICAL SKILLS IN BIOTECHNOLOGY
Status:	Definitive
Code:	**4111BCBMOL** (126536)
Version Start Date:	01-08-2021
Owning School/Faculty:	Pharmacy & Biomolecular Sciences
Teaching School/Faculty:	Pharmacy & Biomolecular Sciences

Team	Leader
Baoxiu Qi	Y
Katie Evans	

Academic Level:	FHEQ4	**Credit Value:**	20	**Total Delivered Hours:**	60
Total Learning Hours:	200	**Private Study:**	140		

Delivery Options
Course typically offered: Semester 1

Component	Contact Hours
Lecture	16
Practical	16
Tutorial	6
Workshop	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Future Focus e-learning task	SAS	Self awareness statement	10	
Test	test	Lab test	60	
Presentation	oral	5 minute oral presentation in tutorial	30	

Aims

To facilitate effective study of Biotechnology by providing a foundation in

communication and research skills, data handling and IT, laboratory techniques and underpinning theory. The module will be delivered by a mixture of lectures, tutorials, workshops and practicals

Learning Outcomes

After completing the module the student should be able to:

1 Demonstrate laboratory skills competently
2 Locate and analyse scientific information from a wide range of sources and communicate this effectively
3 Identify and reflect upon the following aspects of personal development: strengths and weaknesses, motivations and values

Learning Outcomes of Assessments

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

Self awareness statement	3	
Practical test	1	
Oral presentation	2	3

Outline Syllabus

Study skills: The presentation of written material including essays, practical reports and graphs and tabulated data. Oral presentation.
Numeracy: Expression of results, significant figures, concepts linked to basic laboratory calculations on concentration, amount, dilution, pH and buffers
Information technology: Introduction to LJMU PC network and webpages. Spreadsheets, graphical representation of data, literature searching and use of databases. Word and Excel.
General laboratory skills: Health and safety, use of equipment including spectrophotometer, microscope and pipetting, aseptic technique, making up solutions

Learning Activities

Lectures, workshops, practicals, tutorials

Notes

To facilitate effective study of Biotechnology by providing a foundation in basic methodology, data handling, IT, laboratory techniques and skills and study skills via lectures, practicals, workshops (including IT) and tutorials which are a mixture of academic material and transferable skills. This module will provide an opportunity for

personal development planning.