

Liverpool John Moores University

Title: Skills for Biomolecular Scientists 2
Status: Definitive
Code: **5013GNBMOL** (117424)
Version Start Date: 01-08-2017

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

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Academic Level:	FHEQ5	Credit Value:	24	Total Delivered Hours:	64
Total Learning Hours:	240	Private Study:	176		

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	25
Practical	13
Tutorial	10
Workshop	14

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	portfolio	Portfolio will contain evidence of career planning, tutorial work, practical work and personal reflection	70	
Exam	open book	In class open book test relating to theory and data analysis	30	2

Aims

The aims of this module are to provide biochemistry, biomedical science and forensic science students with tutorial and PDP support, theoretical knowledge and practical experience of some key laboratory techniques and prepare students for their Biomolecular Science Project at level 6 by the study and practice of essential research skills.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate a theoretical understanding of and perform a range of laboratory techniques.
- 2 Interpret and analyse results/data including the use of statistical analysis.
- 3 Demonstrate engagement with career planning (CV, SWOT, CAP), employability skills, personal development and reflective writing.
- 4 Develop writing skills and engage with research skills workshops and lectures to prepare for the Biomolecular Science Project at Level 6.

Learning Outcomes of Assessments

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

portfolio	3	4
open book, methods &	1	2

analysis

Outline Syllabus

Theoretical knowledge and practical experience of a range of laboratory techniques.

Career planning, PDP and employability skills.

Research Skills.

Key Statistical Tests.

Tutorials.

Learning Activities

Learning will take place through a variety of classroom and laboratory based activities and independent study. Some activities will involve working alone and others in a small team. Lectures, tutorials, and workshops will provide information and practice on a range of skills appropriate to a research scientist. Students will undertake a number of laboratory based practicals to explore links between theory and practice. Students will be expected to demonstrate active engagement with career planning, PDP and employability skills.

Notes

This module provides tutorial and PDP support to level 5 students. In addition to this students will gain theoretical knowledge and practical experience of a number of analytical techniques, be able to interpret and analyse data including the use of key statistical tests, improve their writing skills and reflective practice, develop research skills that will be helpful for their level 6 research project and also actively engage with career planning and employability skills.