

Liverpool John Moores University

Title: ORGANIC CHEMISTRY
Status: Definitive
Code: **4002PHASCI** (122588)
Version Start Date: 01-08-2021

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

Team	Leader
Melissa Russell	Y
Fyaz Ismail	
Raymond Fox	
Barry Nicholls	
Ian Bradshaw	

Academic Level: FHEQ4
Credit Value: 20
Total Delivered Hours: 73
Total Learning Hours: 200
Private Study: 127

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	33
Practical	18
Tutorial	5
Workshop	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	CW	Lab report	40	
Exam	Exam	Examination	50	2
Future Focus e-learning task	Statement	Self-awareness statement	10	

Aims

To explore the structure, bonding, functionality and reactions of organic molecules with specific reference to pharmaceutically important drugs and to develop in the student an ability to practise chemical laboratory skills and evaluate and communicate their findings.

Learning Outcomes

After completing the module the student should be able to:

- 1 Perform basic techniques within the chemistry laboratory, gather data, evaluate and communicate information within a scientific report.
- 2 Recognise the bonding and bonding interactions of small molecular weight organic molecules, and biological molecules.
- 3 Demonstrate a basic knowledge of pharmaceutically important molecules in terms of functional group chemistry, synthesis, stereochemistry and properties.
- 4 Identify and reflect upon various aspects of personal development and self-awareness.

Learning Outcomes of Assessments

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

Lab report	1	4
Examination	2	3
Self awareness statement	4	

Outline Syllabus

Keyskills: critical thinking, report writing, referencing, structure drawing; health and safety.

Basic lab skills: a series of practical to develop general lab skills.

Bonding and intermolecular bonding.

Bonding interactions in small molecular weight molecules and biological molecules.

Organic chemistry; functional groups, stereochemistry, materials, synthesis and mechanisms.

Introduction to pharmaceutically important low molecular weight drugs.

Learning Activities

Lectures, Workshops, practical sessions, small group tutorials with personal tutor, and reflections upon the various aspects of personal development, culminating in the completion of the self-awareness statement.

Notes

Practical sessions will involve students gaining experience of basic chemical laboratory techniques and developing data analysis and report writing. The examination will assess students understanding of the principles of organic chemistry.