

Liverpool John Moores University

Title: CHEMISTRY 2
Status: Definitive
Code: **3002BELSC** (101151)
Version Start Date: 01-08-2011

Owning School/Faculty: Arts, Professional and Social Studies
Teaching School/Faculty: Bellerby's College - Brighton

Team	Leader
Jarmila Hickman	Y

Academic Level: FHEQ3 **Credit Value:** 12.00 **Total Delivered Hours:** 68.00
Total Learning Hours: 120 **Private Study:** 52

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	55.000
Practical	11.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Practical tasks under test conditions	25.0	
Exam	AS2	Module Examination	75.0	2.00

Aims

To develop the basic principles of Chemistry and to stimulate the students' appreciation of the social, environmental, economic and technological impact of Chemistry on the community.

Learning Outcomes

After completing the module the student should be able to:

- 1 Present chemical data and ideas in a clear form.
- 2 Explain how chemical reactions work and the main factors which effect them.
- 3 Describe important organic molecules.
- 4 Carry out basic techniques in laboratory work in Chemistry with an emphasis on good laboratory practice and safety.
- 5 Relate Chemistry to other areas of study and recognize its importance in everyday life.

Learning Outcomes of Assessments

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

essay	1	4			
EXAM	1	2	3	5	

Outline Syllabus

1. *Acid-based equilibria.*
2. *Kinetics.*
3. *Organic Chemistry, including homologous series, Classification of organic reactions, Organic analysis, Synthetic pathways.*

Learning Activities

Tutor-led theory lessons to small classes, practical tasks and assessments, regular formative homework assignments, class tests and terminal module examination.

References

Course Material	Book
Author	Chapman, B
Publishing Year	2003
Title	Structures, Bonding and Main Group Chemistry
Subtitle	
Edition	2nd Edition
Publisher	Nelson Thornes
ISBN	97807487765590

Course Material	Book
Author	Chapman, B
Publishing Year	2003
Title	Organic Chemistry, Energetics, Kinetics and Equilibrium
Subtitle	

Edition	2nd Edition
Publisher	Nelson Thornes
ISBN	9780748776566

Course Material	Book
Author	Beavon, R and Jarvis, A
Publishing Year	2003
Title	Periodicity, Quantitative Equilibria and Functional Group Chemistry
Subtitle	
Edition	2nd Edition
Publisher	Nelson Thornes
ISBN	9780748776573

Course Material	Book
Author	Jarvis, A
Publishing Year	2004
Title	Transition Metals, Quantitative Kinetic and Applied Organic Chemistry
Subtitle	
Edition	2nd Edition
Publisher	Nelson Thornes
ISBN	9780748776580

Notes

This module builds further on the experience of Chemistry gained in the students' earlier studies and by reinforcing and extending their knowledge and understanding of the subject and providing them with opportunities to develop their practical skills prepares them for relevant degree courses at university, whether in Science or Chemical Engineering.