Liverpool John Moores University

Title:	ESSENTIAL CHEMISTRY CONCEPTS
Status:	Definitive
Code:	**6020PGSKSC** (104421)
Version Start Date:	01-08-2016
Owning School/Faculty:	Education
Teaching School/Faculty:	Education

Team	Leader
Andrea Mallaburn	Y
Robert Jones	

Academic Level:	FHEQ6	**Credit Value:**	24	**Total Delivered Hours:**	50
Total Learning Hours:	240	**Private Study:**	190		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24
Practical	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1		40	2
Test	AS2	(2400 words equivalent)	40	
Reflection	AS3	(1200 words equivalent)	20	

Aims

This module will enable students to develop understanding of key principles and concepts relating to understanding the physical chemistry.

Learning Outcomes

After completing the module the student should be able to:

1	Apply key concepts of properties and behaviour of substances and reaction kinetics to the analysis of chemical processes and systems.
2	Critically evaluate and reflect on their learning and independently plan to extend their subject knowledge to a level appropriate for teaching secondary school chemistry.

Learning Outcomes of Assessments

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

EXAM	1
CW	1
CW	2

Outline Syllabus

Fundamendals of chemistry
Atomic structure, bonding and periodicity
Principles of physical and inorganic chemistry
Energetics
Kinetics
Equilibria

Learning Activities

Lectures, Seminars, Practicals, and Independent study

Notes

The module supports learning about chemistry concepts relevant to the National Curriculum and Post-16 curricula and an audit of knowledge and understanding of physics content will be made during the module.