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MODULE DESCRIPTOR				
Module Title				
Chemistry For Life Sciences				
Reference	AS1801	Version	3	
Created	February 2017	SCQF Level	SCQF 7	
Approved	September 2011	SCQF Points	15	
Amended	September 2017	ECTS Points	7.5	

Aims of Module

To provide students with a knowledge and understanding of the basic concepts of general chemistry.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- Demonstrate knowledge of the basic concepts and principles of atomic structure, the electromagnetic spectrum, bonding and chemical equations.
- 2 Understand and apply the basic principles of ionic equilibria.
- Demonstrate knowledge of the shape, structure and typical reactions of various classes of organic molecules.

Indicative Module Content

Atomic theory, electronic structure of atoms and relation to the periodic table. Electromagnetic spectrum. Ionic and covalent bonding, shapes of molecules. Electronegativity and intermolecular forces, chemical formulae, equations and the mole. Oxidation and reduction. Ionic equilibria, water and pH. Aliphatic, alicyclic and aromatic compounds. Isomersim. Bonding in carbon compounds: bond breaking and formation, bond polarity and radical formation.

Module Delivery

This is a lecture based module supplemented by tutorials, on-line support material and guided reading.

Indicative Student Workload		Part Time
Contact Hours	35	N/A
Non-Contact Hours	115	N/A
Placement/Work-Based Learning Experience [Notional] Hours		N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

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ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type: Examination Weighting: 100% Outcomes Assessed: 1, 2, 3

Description: Closed book written examination.

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

This module is assessed using the one component of assessment as detailed in the Assessment Plan. To pass this module, candidates must achieve a Module Grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:
Α	Final mark of 70% or greater in C1
В	Final mark of between 60-69% in C1
С	Final mark of between 50-59% in C1
D	Final mark of between 40-49% in C1
E	MARGINAL FAIL. Final mark of between 35-39% in C1
F	FAIL. Final mark of less than 35% in C1
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module None, in addition to course entry requirements.

Corequisites for module None.

Precluded Modules None.

INDICATIVE BIBLIOGRAPHY

- 1 KOTZ, J.C., et al. Chemistry & chemical reactivity. Current Edition. Brooks/Cole/Cengage Learning
- 2 BRUICE, P.Y. Organic Chemistry. Current Edition.[electronic resource] Pearson Education