Module Specification

Module Title: Fundamentals of Organic Chemistry **Module Code:** CHE102A

Credit Value: 15 **Level:** 4 **Mode of Delivery**: On Campus **Semester A**

Module Organiser: Dr S Arseniyadis

Pre-requisite modules	Co-requisite modules	Overlapping modules
N/A	N/A	N/A

1. Content Description

This module is designed to introduce first year students to the fundamental principles underpinning organic chemistry. A substantial introduction, covering topics such as structure, bonding, stereochemistry, acidity and curved arrow formalism will provide students with the basic tools required to explain and predict the structure and reactivity of organic molecules.

2. Module Aims

The module aims to provide students with the fundamental concepts required to understand the relationship between structure and reactivity in organic molecules.

3. Learning Outcomes

Academic Content:	
A1	Understanding of the principles relating to structure/reactivity relationship in organic compounds.
A 2	Knowledge of the reactions of specific classes of organic compounds.

Disciplinary skills - able to:	
B1	Identify and draw realistic representations of the main classes of organic molecules, including their 3D-structures.
B2	Identify E/Z isomerism, locate chiral centers, assign the configuration of asymmetric carbon atoms and determine the stereoisomeric relationship between two compounds.
B3	Rationalize the acidity and basicity of organic compounds.

Attributes:	
C1	Acquire and apply knowledge relating to the principles of organic chemistry.
C2	Produce analyses which are grounded in experimental evidence.
C3	Apply analytical skills to investigate unfamiliar problems.

4. Reading list

Organic Chemistry, by J. Clayden *et al*. (Oxford University Press) - *Chemistry³: Introducing inorganic, organic and physical chemistry*, by A. Burrows *et al*. (Oxford University Press).

5. Teaching and Learning Profile

Activity Type	KIS Category	Time Spent (in hours)
Lectures	Scheduled	22
Workshops	Scheduled	8
Total		30

Activity Type	Total Time Spent (in hours)	Percentage of Time Spent
Scheduled learning and teaching	30	20
Placement	0	0
Independent Study	120	80
Total	150	100

6. Assessment Profile

Description of Assessment	Assessment Type	KIS Category	Duration/Length	Percentage Weighting	Final element of assessment	Qualifying Mark
Examination	Exam	Exam	2 Hours	80%	Yes	
Coursework	Written assignment	Coursework		20%	No	

Reassessment

○ Standard Reassessment ◉ Synoptic Reassessment

Synoptic reassessment details		
Brief Description of Assessment	Assessment Type	Duration/Length of Examination/ Coursework
Resit Examination	Examination	2 Hours