Module Specification

CH1200 General Chemistry

Academic Year: 2021/2
Module Level: Year 1
Scheme: UG
Department: Chemistry
Credits: 15

Student Workload (hours)

Synchronous Lectures	5
Synchronous Small Group Teaching	3
Synchronous Practical Classes/ Workshops/Professional Placements	
Synchronous Other	
Asynchronous Lectures/Presentations	25
Asynchronous Other	117
Guided Independent Study	
Total Module Hours	150

Period: Semester 1
Occurence: E
Coordinator: Richard Blackburn
Mark Scheme: UG Honours Level Module Mark Scheme

No.	Assessment Description	Weight %	Qual Mark	Exam Hours	Ass't Group	Alt Reass't
004	Continuous Assessment 1	30				
005	Continuous Assessment 2	30				
006	Examination (Final)	40		1.5		

Period: Semester 1
Occurence: E1
Coordinator: Richard Blackburn
Mark Scheme: UG Module Mark Scheme

No.	Assessment Description	Weight %	Qual Mark	Exam Hours	Ass't Group	Alt Reass't
001	Continuous Assessment (Final)	100				

Intended Learning Outcomes

On successful completion of the module, students should be able to:
- Explain the principles of atomic structure, electron configuration, energy quantisation, wave particle duality, molecular orbital theory and coordinate bonding
- Determine the shapes of covalent molecules using Valence-Shell Electron-Pair repulsion theory
- Predict the Lewis acidity or basicity of a molecule
- Describe chemical equilibria on both molecular and mathematical levels
- Describe the underlying principles of spectroscopy and apply quantitative relationships (e.g. Beer-Lambert law, Rydberg equation) to analyse spectra; predict and rationalize spectra of atoms & molecules
- Draw and name organic molecules explaining their structure, shapeand possible isomers
- Use curly arrow notation to rationalise and predict stability, polar reactivity and acidity for organic molecules

Teaching and Learning Methods

Asynchronous lectures, synchronous classes that include example problems and problem solving, tutorials, marked work & VLE directed activities

Assessment Methods

Coursework
Examination

Pre-Requisites

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Co-Requisites

Excluded Combinations

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Guided Independent Study: Indicative Activities

Directed reading, set problems, group problem solving exercises, formative quizzes

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