

# BSc (Hons) Chemistry

Chemical and Environmental Engineering / Faculty of Science and Engineering

## Year 1 Modules

Module Code	Module Title	Credits
CELEN120	Foundation Algebra	20
CELEF008	Introduction to Academic Skills	10
CELEN038	The Scientific Method	10
CELEN122	Foundation Electromagnetism and Mechanics	20
CELEN037	Foundation Calculus and Mathematical Techniques	20
CELEN040	Foundation Chemistry	10
CELEN052	English in Specific Academic Contexts B (Engineering; Comp Sci; Env'mental Sci & Architecture)	20
CELEN082	Oral Communication Skills B	10

## Year 2 Modules

Module Code	Module Title	Credits
CHEE1053	Sustainable Chemistry	10
CHEE1043	Foundation Laboratory Work	20
CHEE1037	An Introduction to Organic Molecules and their Reactivity	20
CHEE1038	An Introduction To Spectroscopy, Energy And Bonding In Chemistry	20
CHEE1039	An Introduction to Structure, Periodicity and Coordination Chemistry	20
MATH1047	Mathematical Methods for Chemical and Environmental Engineering	20
CHEE1054	Frontiers in Chemistry	10

### Year 3 Modules

Module Code	Module Title	Credits
CHEM2006	Principles in Analytical Chemistry	10
CHEM2003	Core Laboratory Work A	30
CHEM2007	General Inorganic Chemistry	20
CHEM2010	Synthesis and Spectroscopy	20
CHEM2017	Energy, Spectroscopy, and Solid State Chemistry	20

### Optional Modules

Module Code	Module Title	Credits
MTHS2003	Advanced Calculus and Differential Equation Techniques	10
CHEM2018	Sustainable Chemistry 2	10
CHEM2008	Atmospheric Chemistry	10
CHEM2011	Medicinal Chemistry and Molecular Biology	10
PHAR2062	Intro to Python for Chemical and Pharmaceutical Sciences	10

### Year 4 Modules

Module Code	Module Title	Credits
CHEE3065	Synthesis and Reactive Intermediates	20
CHEE3064	Chemical Bonding, Reactivity and Surfaces	20
CHEM3063	Catalysis, Bioinorganic and Supramolecular Chemistry	20
CHEM3027	BSc Chemistry Project	30

### Optional Modules

Module Code	Module Title	Credits
CHEM3004	Protein Structure and Function, Biospectroscopy and Bioinformatics	10
CHEM3012	Chemical Biology and Enzymes	10
CHEM3022	Contemporary Drug Discovery	10
CHEM3024	Topics in Inorganic Chemistry	10
CHEM3062	Structure Determination Methods	10