

BSC (HONS) CHEMISTRY OF PHARMACEUTICAL COMPOUNDS

Programme Requirements

Code	Title	Credits
Year 1		
Students take 60 credits as follows:		
<i>Core Modules</i>		
BC1001	Introduction to Biochemistry and the Biological Basis of Disease	5
BL1002	Cells, Biomolecules, Genetics and Evolution	5
BL1004	Physiology and Structure of Plants and Animals	5
CM1200	Fundamentals of Modern Chemistry Part 1	10
CM1201	Fundamentals of Modern Chemistry Part 2a	10
MA1001	Calculus for Science Part 1	5
MA1002	Calculus for Science Part 2	5
MB1003	Microbiology in Society	5
PY1010	Physics for Biological and Chemical Sciences	10
Year 2		
Students take 60 credits as follow:		
<i>Core Modules</i>		
<i>Chemistry</i>		
CM2001	Main Group and Transition Element Chemistry	5
CM2002	Intermediate Stereochemistry, Reactivity and Mechanisms in Organic Chemistry	5
CM2003	Energetics and Kinetics	5
CM2004	States of Matter	5
CM2005	Structures and Reactions of Main Group Compounds	5
CM2006	Aromatics, Carbonyls and Alkenes	5
CM2007	Spectroscopy	5
CM2008	Structure, Bonding and Quantum Mechanics	5
<i>Biochemistry</i>		
BC2001	Biomolecules	5
BC2002	Principles of Metabolic Pathways	5
<i>Molecular Biology</i>		
ML2901	Introductory Molecular Biology	5
<i>Physiology</i>		
PL2021	Introductory Physiology I	5
<i>Optional Module ¹</i>		
CM0004	Introduction to Validation (5)	
Year 3		
Students take 60 credits as follow:		
<i>Core Modules</i>		
<i>Chemistry</i>		
CM3001	Organic Synthesis, Intermediates and Heterocycles	5
CM3004	Structure and Reactivity of Organic Compounds	5
CM3024	Analytical Chemistry	10
CM3101	Natural Products and Reaction Mechanisms	5

CM3102	Introduction to Pharmaceutical Chemistry	5
CM3110	Pharmaceutical Solids and Technology	5
<i>Biochemistry</i>		
BC3001	Structural and Experimental Biochemistry	5
BC3006	Molecular Biology	5
<i>Pharmacology</i>		
PT3001	Introduction to Pharmacology	5
PT3002	Introduction to Toxicology	5
PT3005	Chemotherapy and Pharmacology of Inflammation	5
<i>Optional Module ²</i>		
CM0005	Validation Science (5)	
Year 4		
Students take 60 credits as follow:		
<i>Core Modules</i>		
<i>Work Placement Module</i>		
CM4204	Work Placement	10
<i>Chemistry</i>		
CM4001	Advanced Organic Synthesis and Reactivity	5
CM4101	Physical Organic Chemistry	5
CM4103	Heterocycles, Biosynthesis and Asymmetric Synthesis	5
CM4108	Advanced Pharmaceutical Chemistry	5
CM4109	Pharmaceutical Chemistry Drug Design and Development	5
<i>Biochemistry</i>		
BC4002	Protein Science	5
<i>Pharmacology</i>		
PT4005	Neuropharmacology	5
PT4012	Applied Pharmacology & Toxicology	5
<i>Projects</i>		
Students select one of the following:		10
CM4203 & BC4014	Research Project : Chemistry of Pharmaceutical Compounds and Research Project: Chemistry of Pharmaceutical Compounds	
CM4208	Research Project 2: Chemistry of Pharmaceutical Compounds (10)	
Total Credits		240

¹ Students interested in taking this optional module must note their interest to the module co-ordinator in the first week of Semester 1. Places are limited and will be allocated based on results obtained in First Year and subject to the approval of the Programme Co-ordinator. CM0004 is not included for progression to subsequent year and is not counted toward the final degree award. The result obtained in CM0004 will be recorded on the student's transcript.

² Students interested in taking this optional module must note their interest to the module co-ordinator in the first week of Semester 2. Students who have passed the prerequisite CM0004 will be allocated a place, subject to the approval of the Programme Co-ordinator. CM0005 is not included for progression to subsequent year and is not counted toward the final degree award. The result obtained in CM0005 will be recorded on the student's transcript.

Examinations

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.