

BSC (HONS) PHYSIOLOGY

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 follows - all listed core modules (55 credits) and 5 credits of elective modules:		
<i>Core Modules</i>		
Biochemistry		
BC2001	Biomolecules	5
BC2002	Principles of Metabolic Pathways	5
Biotechnology		
BT2001	Introduction to Biotechnology	5
Molecular Biology		
ML2001	Introductory Molecular Biology	5
Microbiology		
MB2005	Fundamentals of Microbiology	5
MB2006	Principles of Microbiology	5
Neuroscience		
AN2003	Principles of Human Structure	5
AN2020	Introduction to Neuroscience, the Brain and Behaviour	5
Physiology		
PL2021	Introductory Physiology I	5
PL2022	Introductory Physiology II	5
Statistics		
ST2001	Introduction to Biostatistics	5
<i>Elective Modules</i>		
Students take modules to the value of 5 credits from the following:		
Semester 1		
Chemistry		
CM2001	Main Group and Transition Element Chemistry	
CM2002	Intermediate Stereochemistry, Reactivity and Mechanisms in Organic Chemistry	
CM2003	Energetics and Kinetics	
Plant Science		
PS2001	Introduction to Plant Biotechnology	
Zoology		
ZY2000	Vertebrate Diversity	

Semester 2

Ecology		
AE2001	Fundamentals of Ecology	
Year 3		
Students take 60 credits as follows – all listed core modules (55 credits) and 5 credits of elective modules:		
<i>Core Modules</i>		
AN3001	Research Methodology in Neuroscience and Biomedical Science	5
BC3005	Biochemical and Cellular Immunology	5
PL3005	Cell and Epithelial Physiology	5
PL3009	Bioenergetics and Endocrinology	5
PL3020	Neurophysiology	5
PL3021	Cardiovascular Physiology	5
PL3022	Respiratory Physiology	5
PL3023	Renal Physiology	5
PL3024	Digestive Physiology	5
PL3025	Literature Review, Experimental Design and Data Analysis	5
PT3001	Introduction to Pharmacology	5
<i>Elective Modules</i>		
Students take modules to the value of 5 credits from the following:		
PT3002	Introduction to Toxicology (5)	
PT3005	Chemotherapy and Pharmacology of Inflammation (5)	
Year 4		
Students take 60 credits as follows:		
<i>Core Modules</i>		
PL4006	Regulation of Epithelial Transport	5
PL4009	Applied Cardiovascular and Respiratory Physiology	5
PL4010	Control of Breathing in Health and Disease	5
PL4011	Learning and Memory	5
PL4012	Physiology of Calcium Signalling	5
PL4014	Endocrine and Gastrointestinal Physiology	5
PL4015	Microbiome and Physiology	5
PL4016	Dynamic Physiology in Biological Systems	5
PL4020	Research Project	20
Total Credits		240