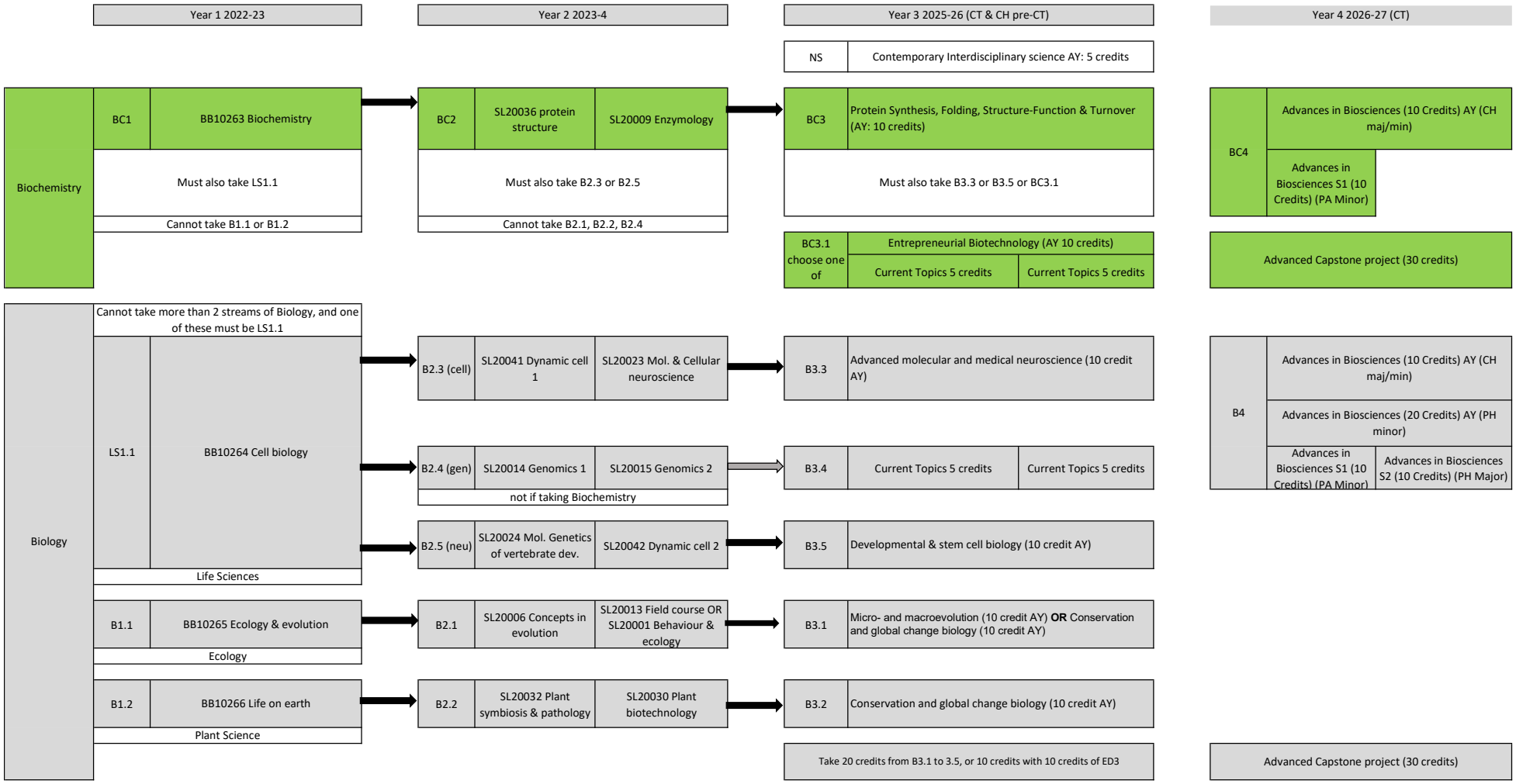
Year 1 2022-23
Year 2 2023-4
Year 3 2025-26 (CT & CH pre-CT)
Year 4 2026-27 (CT)
NS
Contemporary Interdisciplinary science AY: 5 credits
Biochemistry
BC1
BB10263 Biochemistry
Must also take LS1.1
Cannot take B1.1 or B1.2
BC2
SL20036 protein structure
SL20009 Enzymology
Must also take B2.3 or B2.5
Cannot take B2.1, B2.2, B2.4
BC3
Protein Synthesis, Folding, Structure-Function & Turnover (AY: 10 credits)
Must also take B3.3 or B3.5 or BC3.1
BC3.1 choose one of
Entrepreneurial Biotechnology (AY 10 credits)
Current Topics 5 credits
Current Topics 5 credits
BC4
Advances in Biosciences (10 Credits) AY (CH maj/min)
Advances in Biosciences S1 (10 Credits) (PA Minor)
Advanced Capstone project (30 credits)
Biology
Cannot take more than 2 streams of Biology, and one of these must be LS1.1
LS1.1
BB10264 Cell biology
Life Sciences
B2.3 (cell)
SL20041 Dynamic cell 1
SL20023 Mol. & Cellular neuroscience
B3.3
Advanced molecular and medical neuroscience (10 credit AY)
B2.4 (gen)
SL20014 Genomics 1
SL20015 Genomics 2
not if taking Biochemistry
B3.4
Current Topics 5 credits
Current Topics 5 credits
B2.5 (neu)
SL20024 Mol. Genetics of vertebrate dev.
SL20042 Dynamic cell 2
B3.5
Developmental & stem cell biology (10 credit AY)
B1.1
BB10265 Ecology & evolution
Ecology
B2.1
SL20006 Concepts in evolution
SL20013 Field course OR SL20001 Behaviour & ecology
B3.1
Micro- and macroevolution (10 credit AY) OR Conservation and global change biology (10 credit AY)
B1.2
BB10266 Life on earth
Plant Science
B2.2
SL20032 Plant symbiosis & pathology
SL20030 Plant biotechnology
B3.2
Conservation and global change biology (10 credit AY)
Take 20 credits from B3.1 to 3.5, or 10 credits with 10 credits of ED3
B4
Advances in Biosciences (10 Credits) AY (CH maj/min)
Advances in Biosciences (20 Credits) AY (PH minor)
Advances in Biosciences S1 (10 Credits) (PA Minor)
Advances in Biosciences S2 (10 Credits) (PH Major)
Advanced Capstone project (30 credits)

	Year 1 2022-23	Year 2 2023-4	Year 3 2025-26 (CT & CH pre-CT)			Year 4 2026-27 (CT)		
Chemistry	Cannot take more than 2 streams of Chemistry in							
	C1.1 CH10135 Fundamentals of Organic Chemistry	C2.1 CH20150 Organic synthesis etc. for Nat Sci	C3.1	CH30128 Topics in organic chemistry	Choose 2: CH30211 Chemistry beyond the molecule, CH30065 Biosynthesis & Biotransformation, CH30230 DNA & the modern world (2.5 each)	CH4	Advanced Chemistry II for Natural Sciences (10)	21st century research challenges for Nat Sci (10)
				CH30235 Organic chemistry of biomolecules				
	C1.2 CH10133 Atomic structure, bonding & the periodic table	C2.2 CH20148 Inorganic synthesis etc. for Nat Sci	C3.2	CH30127 topics in inorganic chemistry	CH30231 Porous materials			
				CH30203 Radiochemistry	CH30086 Inorganic chemistry in biological systems			
	C1.3 CH10137 From molecule to materials	C2.3 CH20152 Principles of physical chemistry for Nat Sci	C3.3	CH30129 Topics in physical chemistry 1	CH30220 Chemical thermodynamics in context			
				CH30218 Analytical chemistry for Nat Sci	CH30227 Advanced spectroscopic techniques			
			CH majors only C3.4	CH30186 Lab Chemistry for Natural Sciences	CH30187 Lab Chemistry for Natural Sciences	MSci Research Project (30 credits)		
Maths	M1.1 PH10007 Mathematical methods for Physics	M2.1 PH20107 Mathematical methods for Physics 2		No maths, take more Physics units		No maths in Yr 4		
	Must have A Level Maths & be taking Physics options	This stream for students taking Physics						
	M1.2 MA10201 Modelling the dynamics of life 1 / MA10202 Modelling the dynamics of life 2	M2.2 XX20231 Mathematical & Statistical methods	M3.3	Mathematical modelling	Mathematical Biology: biomedical applications			
	Can take only one stream of Maths							

	Year 1 2022-23			Year 2 2023-4			Year 3 2025-26 (CT & CH pre-CT)			Year 4 2026-27 (CT)		
Physics	P1.1	PH10002 properties of matter	PH10006 Electricity & magnetism,	P2.1	PH20060 Quantum & atomic physics	PH20061 Electromagnet. 1	P3.1 Minors choose 10 credits per semester, checking pre-req for year 4	Adv Quantum mechanics (5) OR Photonics (5) OR Statistical Physics & Soft matter (5) OR Medical Physics (5) OR Electronics & Opt Prop of matter (5) OR Nonlinear Physics (5) OR Environmental Physics (5)	Networks&quantum Information (5) OR Magnetism & superconductivity (5) OR Laser Physics (5) OR Symmetry & Topology (5) OR Sustainable Energy Technologies (5)	PH4 minors choose 10 credits		Nanoscience (5), Advanced Functional Materials (5), Fibre Photonics (5), Non-linear and quantum optics (5).
		PH10005 Vibrations, waves & optics	PH10001 Intro to quantum physics		PH20067 Thermal Physics	PH20063 Condensed matter physics 1						
							P3.2 Majors	PH32013 Adv Quantum Mechanics, PH30246 Electronic & optical properties of Matter, PH30256 Photonics	MPhys/MSci project preparation (5) plus 2 5-credit units from the list above	PH4 majors take all	MPhys/MSci project (30 credits)	Nanoscience (5), Advanced Functional Materials (5), Fibre Photonics (5), Non-linear and quantum optics (5).
								MPhys/MSci Laboratory OR Computational Physics (10, AY)				
Pharmacology	LS1.1	BB10264 Cell biology		Can take B2.3, B2.4, B2.5 in Year 2								
	PC1.1	PA10315 Fundamental of physiology & pharmacology for Nat Sci		PC2	SL20021 Intro to practical pharm, (3 credits) AND SL20008 Drug discovery (3 credits) DOUBLE ONLY	SL20012 Experimental Pham for Nat Sci (DOUBLE ONLY) OR SL20018 Infection & Immunity for Nat Sci (SINGLE stream choice) (DOUBLE OR SINGLE)	PC3	PA30251 Advanced topics & trends in Pharmacology (10)	Choose 2: PA30148, Advanced CNS, PA30157 Molecular Biology of Cancer, PA30168 Drug targets in the Immune system, PA30169 Molecular signalling, PA30252 Regenerative medicine (cannot be taken with Developmental & Stem Cell Biology)	PA4	Advanced drug discovery AY (10)	
					SL20028 Pharm. of the central nervous system (6 credits) SINGLE STREAM	SL20004 Cardiovascular & autonomic pharm. (SINGLE stream choice)				choose 10, different to PC3	MSci dissertation (10)	Choose 2 of 5-credit*: Advanced CNS Pharmacology, Molecular Biology of Cancer, Molecular signalling, Drug targets in the immune system, Regenerative medicine
										Cannot major in Pharmacology on MSci		
										*if you took the SL3 version of this unit, you cannot take the SL4 version, nor SL4 RegMed if you took SL3 Developmental & stem cell Biology		

	Year 1 2022-23	Year 2 2023-4	Year 3 2025-26 (CT & CH pre-CT)	Year 4 2026-27 (CT)
Environment	(no units in Year 1)	ENV2.1 XX20239 Intro to env. sciences & sustainability	ENV3: Choose 1 or 2: XX30001 Renewable energy, XX30172 State of the planet, CE40129 Legislation & waste management; Choose 1 or 2: XX30252 Transition to sustainability, XX30213 Global challenges: water Environment majors to choose 2 options each semester, minor to choose 1 each semester XX30177 Environmental Sciences dissertation (15 credits)	No Environment units in final year
Non-science	ED1: (no S1 unit); ED10002 Learning theory & content	ED2: ED20003 Education in society; ED20126 Educational psychology	ED3: ED30005 Science education practice; ED30006 Issues in science education	
	MN1: MN10545 organisational behaviour; MN10248 Intro to business accounting	MN2: MN20072 Managing human resources; MN20073 Marketing	MN3: ; MN30076 Business strategy	
	PS1: PS10086 Mind & behaviour	PS2: PS20167 Cognitive neuroscience	PS3: PS30115 Contemporary educational psychology; PS30156 Emotion science Must have taken PS1 and PS2	
			ZZ: DoS approved unit; DoS approved unit	