

4-YEAR CURRICULAR MAP

Bachelor of Science in Chemistry - Biochemistry

FALL		YEAR 1		SPRING	
‡UK Core CC1	3	UK Core CC2	3		
UK Core QFO (MA113: Calculus I <u>AND</u> MA 193: Supp. Workshop I <u>OR</u> MA 137: Calculus I for Life Sciences)	4-5	A&S NS (CHE 107: General Chemistry II)	3		
UK Core NPM (CHE 105: General Chemistry I)	4	A&S Lab (CHE 113: General Chemistry II Lab)	2		
UK Core NPM (CHE 111: General Chemistry I Lab)	1	MA 114: Calculus II <u>AND</u> MA 194: Supp. Workshop II			
UK Core ACR	3	<u>OR</u> MA 138: Calculus II for Life Sciences	4-5		
		BIO 155: Lab for Introductory Biology I	1		
		BIO 148: Introductory Biology I	3		
Total Credits: 15-16			Total Credits: 16-17		
FALL		YEAR 2		SPRING	
UK Core SIR (STA 210: Intro to Statistical Reasoning)	3	UK Core HUM	3		
MA 213: Calculus III	4	CHE 226: Analytical Chemistry	3		
CHE 230: Organic Chemistry I	3	CHE 231: Organic Chemistry Lab I	1		
PHY 231: General Univ. Physics I	4	CHE 232: Organic Chemistry II	3		
PHY 241: General Univ. Physics Lab I	1	PHY 232: General Univ. Physics II	4		
BIO 152: Principles of Biology II	3	PHY 242: General Univ. Physics II Lab II	1		
Total Credits: 18			Total Credits: 15		
FALL		YEAR 3		SPRING	
UK Core SSC	3	‡Foreign language 101	4		
A&S HUM	3	CHE 410G: Inorganic Chemistry	2		
CHE 440G: Introductory Physical Chemistry	3	CHE 533: Qual. Organic Analysis Lab (If 532 in Fall)	0-2		
CHE 550: Biological Chemistry I	3	CHE 552: Biological Chemistry II	3		
CHE 532: Spectrometric Identification of Organic Compounds (<u>OR</u> CHE 422: Instrumental Analysis) 2 (OR 4)		CHE 454: Biological Chemistry Lab	2		
		BIO 304: Principles of Genetics <u>OR</u> BIO 315: Intro. to Cell Biology	4		
Total Credits: 14-16			Total Credits: 17 or 15		
FALL		YEAR 4		SPRING	
‡Foreign language 102	4	‡Foreign language 201	3		
UK Core CCC	3	UK Core GDY	3		
A&S SS	3	CHE 441: Physical Chemistry Lab	2		
CHE 412: Inorganic Chemistry Lab	2	*CHE Major field option	2		
WRD 310: Writing in the Natural Sciences	3	◇Electives	6		
*CHE Major field option	2				
Total Credits: 17			Total Credits: 16		

‡ Incoming students are strongly encouraged to take WRD 112 to fulfill the CC1 and CC2 requirements if they have any of the following: an ACT English score of 32 or Higher, an SAT Verbal score of 720 or Higher, or an AP English Composition score of 4 or 5. If the student has been accepted into the University Honors Program, the student is required to take WRD 112 to fulfill CC1 and CC2.

‡ Students who have taken at least 2 years of a language in high school can complete the A&S Foreign Language Requirement with 3 college semesters of a different language. Students choosing this option should replace the 4th semester of language with electives. Also note that if you take a foreign language placement exam, you may be exempt from 1 or more of the beginning semesters of that language. In this case, replace the by-passed language courses with electives. Any language sequence may be used to satisfy the foreign language requirements.

◇ 6 hours of 'free' electives - that do not count toward any other requirement - must be taken. Additional electives may be required to reach the required minimum of 120 hours.

UK Core Abbreviations	CC1= Composition and Communication I
HUM =Intellectual Inquiry in the Humanities	CC2= Composition and Communication II
NPM=Intellectual Inquiry in the Natural/Physical/Mathematical Science	QFO= Quantitative Foundations
SSC=Intellectual Inquiry in Social Sciences	SIR= Statistical Inferential Reasoning
ACR=Intellectual Inquiry in Arts & Creativity	CCC= Community, Culture and Citizenship in U.S.
GCCR= Graduation Composition and Communication Requirement	GDY= Global Dynamics
College of Arts & Sciences Abbreviations	
SS: Social Sciences	NS: Natural Sciences
Lab: College Laboratory or Field Experience	HUM: Humanities