

# 4-YEAR CURRICULAR MAP

## Bachelor of Science in Chemistry - Traditional

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	UK Core HUM	3
UK Core NPM (CHE 105: General Chemistry I)	4	A&S NS (CHE 107: General Chemistry II)	3
UK Core NPM (CHE 111: General Chemistry I Lab)	1	A&S Lab (CHE 113: General Chemistry II Lab)	2
UK Core ACR	3	MA 114: Calculus II <u>AND</u> MA 194: Supp. Workshop II	
UK 101	1	<u>OR</u> MA 138: Calculus II for Life Sciences	4-5
Total Credits: 16-17		Total Credits: 15-16	
FALL	YEAR 2	SPRING	
MA 213: Calculus III	4	UK Core SSC	3
CHE 226: Analytical Chemistry	3	MA 322: Matrix Algebra	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
		PHY 242: General Univ. Physics II Lab II	1
Total Credits: 15		Total Credits: 15	
FALL	YEAR 3	SPRING	
‡Foreign language 101	4	‡Foreign language 102	4
UK Core SIR (STA 210: Intro. to Statistical Reasoning)	3	UK Core CCC	3
WRD 310: Writing in the Natural Sciences	3	CHE 410G: Inorganic Chemistry	2
CHE 532: Spectrometric Identification of Organic Compounds	2	CHE 441: Physical Chemistry Lab	2
CHE 547: Principles of Physical Chemistry I	3	CHE 442G: Thermodynamics and Kinetics	3
		CHE 533: Qualitative Organic Analysis Lab	2
Total Credits: 15		Total Credits: 16	
FALL	YEAR 4	SPRING	
‡Foreign language 201	3	UK Core GDY	3
CHE 412: Inorganic Chemistry Lab	2	A&S SS	3
CHE 422: Instrumental Analysis	4	*CHE Major field option	3
CHE 550: Biological Chemistry I	3	A&S SS	3
*CHE Major field option	3	◊Electives	3
A&S HUM	3	◊Electives	3
Total Credits: 18		Total Credits: 18	

- ‡ 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.
- \* To be discussed with your academic advisor. Consider pursuing a 2<sup>nd</sup> major or minor.
- ◊ 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 4<sup>th</sup> 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.
- **Race and Ethnicity Requirement:** The College requires its students to complete an approved race and ethnicity (R&E) course that will address the changing meanings of race and ethnicity across time and space. Students may double-dip courses to satisfy the R&E requirement with any other requirement

<b>UK Core Abbreviations</b>	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
<b>College of Arts &amp; Sciences Abbreviations</b>	
SS: Social Sciences    NS: Natural Sciences    Lab: College Laboratory or Field Experience    HUM: Humanities	