# Bachelor of Science in Chemistry - Biochemistry

## 4-YEAR CURRICULAR MAP

**FALL** | **YEAR 1** | **SPRING**
---|---|---
‡UK Core CC1 | 3 | UK Core CC2 | 3
UK Core QFO (MA113: Calculus I AND MA 193: Supp. Workshop I OR 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 AND MA 194: Supp. Workshop II | 4-5
UK Core ACR | 3 | BIO 155: Lab for Introductory Biology I | 1
Total Credits: 15-16 | | BIO 148: Introductory Biology I | 3

**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 (OR CHE 422: Instrumental Analysis) 2 (OR 4) | | CHE 454: Biological Chemistry Lab | 2
Total Credits: 14-16 | | BIO 304: Principles of Genetics OR BIO 315: Intro. to Cell Biology | 4

**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

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‡ 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.

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**UK Core Abbreviations**

- A&S: Arts and Sciences
- MA: Mathematics and Actuarial Science
- CHE: Chemistry
- BIO: Biology
- PHY: Physics
- BIO 155: Lab for Introductory Biology
- BIO 148: Introductory Biology

- GDY: Global Dynamics
- SIR: Statistical Inferential Reasoning
- HUM: Humanities
- QFO: Quantitative Foundations
- CC1: Composition and Communication I
- CC2: Composition and Communication II
- CCC: Community, Culture and Citizenship in U.S.
- GCCR: Graduation Composition and Communication Requirement

**College of Arts & Sciences Abbreviations**

- SS: Social Sciences
- NS: Natural Sciences
- Lab: College Laboratory or Field Experience
- HUM: Humanities

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Updated 5/15/2017