

4-YEAR CURRICULAR MAP: Bachelor of Science in Biology

This is a suggested curriculum map for the typical student completing the degree in 4 years. The map may be different for some students. Please discuss your course plan with your academic advisor to check whether this map will work for you. Check in with your academic advisor each semester to revisit the map and make changes for your specific situation as needed.

UK Core Abbreviations

HUM = Intellectual Inquiry in the Humanities
 SSC = Intellectual Inquiry in Social Sciences
 ACR = Intellectual Inquiry in Arts & Creativity
 GCCR = Graduation Composition and Communication Requirement

CC1 = Composition and Communication I
 CC2 = Composition and Communication II
 CCC = Community, Culture, and Citizenship in U.S.A.
 GDY = Global Dynamics

College of A&S Abbreviations

SS: Social Sciences
 HUM: Humanities
 R&E: Race and Ethnicity

YEAR 1			
Fall	credit hr	Spring	credit hr
♣UK Core CC1 (WRD 110)	3	♣UK Core CC2 (WRD 111)	3
MA 137: Calculus with Life Science Applications	4	MA 138: Calculus II with Life Science Applications	4
CHE 105: General College Chemistry I	4	CHE 107: General College Chemistry II	3
CHE 111: General Chemistry I Lab	1	CHE 113: General Chemistry II Laboratory	2
BIO 148: Introductory Biology I	3	BIO 152: Principles of Biology II	3
BIO 155: Lab for Introductory Biology I	1		
<u>OR</u> BIO 198: Scholars Biology Research	2		
Total Credits: 16-17		Total Credits: 15	
YEAR 2			
Fall	credit hr	Spring	credit hr
+Foreign language 101	4	+Foreign language 102	4
◇UK CORE SSC	**3	◇UK Core HUM	**3
◇UK Core ACR	**3	^Free Elective 1	**3
●Tier I Core course 1	4	●Tier I Core course 2	4
CHE 230: Organic Chemistry I	3	CHE 232: Organic Chemistry II	3
CHE 231: Organic Chemistry Lab	1		
Total Credits: 18		Total Credits: 17	
YEAR 3			
Fall	credit hr	Spring	credit hr
+Foreign language 201	3	+Foreign language 202	3
PHY 211: General Physics I	5	PHY 213: General Physics II	5
STA 296	3	◆Tier II BIO Course II	4
◆Tier II BIO Course I	4	*Biology Elective 1	**3
Total Credits: 15		Total Credits: 15	
YEAR 4			
Fall	credit hr	Spring	credit hr
◇A&S SS	**3	◇★UK Core GDY + A&S R&E	**3
◇★UK Core CCC + A&S R&E	**3	◇A&S HUM	**3
◆Tier II BIO Course III	4	^Free Elective 2	**3
*Biology Elective 2	**3	*Biology Elective 4	**3
*Biology elective 3	**3	*Biology Elective 5	**3
		BIO 425: Biology Seminar	1
Total Credits: 16		Total Credits: 16	

**The number of credits listed for these courses is the typical number of credits for courses in this category. However, different courses may have different number of credits.

Notes:

◇ The sequence in which UK-Core and A&S courses are taken does not matter. The sequence given in this plan is arbitrary.

★ Several A&S R&E courses also satisfy the UK-Core CCC or UK-Core GDY requirements. Students are strongly encouraged to take such a course for the R&E so that the total number of credits required may be reduced by 3.

♣ 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, instead of CC1 and CC2.

• Tier I Core courses include BIO 303 Introduction to Evolution and BIO 304 Principles of Genetics. Either one can be taken in the Fall of Year 2 and the other taken in the Spring of Year 2; the order of these two courses does not matter.

◆ Tier II Core courses include:

- BIO 315
- BIO 325
- BIO 350 or BIO 430G

The order in which these are taken does not matter, though students generally tend to take BIO 315 before taking the other Tier 2 Core courses.

* Upper-level Biology electives: To be discussed with your academic advisor. Students pursuing a BS in Biology need 15 credits of upper-level electives, of which 12 credits should be from within the declared track. See the Biology Department website for which courses are accepted as upper-level electives. Of the 15 credits of electives, 9 credits need to have a BIO prefix.

- The GCCR is satisfied by Biology majors through BIO 425 + a GCCR written course. The GCCR written course may be BIO 430G or an elective that satisfies this requirement. Ensuring that one of the upper-level biology electives is a GCCR written course will reduce the number of credits that a student needs.

+ Students who have taken 2 years of a language in high school have two options:

1. They may complete the requirement with 3 college semesters of a different language.
2. If they want to continue with the same language, they must reach out to the DUS of that language and check which course they must take next. They may need to take the 103 level of that language before moving to 201, or they may be able to directly enroll in the 201 level of that language, depending on the student's fluency with the language.

Students who have taken 4 years of a high school language must also reach out to the DUS of that language to find out what course they must take to complete the A&S Foreign Language Requirement.

^ 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.

See the Biology Department website for detailed information on degree requirements, acceptable electives, tracks, and other requirements.

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