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
- #UK Core CC1 (WRD 110) = 3 cr
- MA 137: Calculus with Life Science Applications = 4 cr
- CHE 105: General College Chemistry I = 4 cr
- CHE 111: General Chemistry I Lab = 1 cr
- BIO 148: Introductory Biology I = 3 cr
- BIO 155: Lab for Introductory Biology I = 1 cr
  OR BIO 198: Scholars Biology Research = 2 cr

**Total Credits: 16-17**

#### Spring
- #UK Core CC2 (WRD 111) = 3 cr
- MA 138: Calculus II with Life Science Applications = 4 cr
- CHE 107: General College Chemistry II = 3 cr
- CHE 113: Lab to Accompany General Chemistry II = 2 cr
- BIO 152: Principles of Biology II = 3 cr

**Total Credits: 15**

### YEAR 2

#### Fall
- +Foreign language 101 = 3 cr
- ◊ UK CORE SSC = 3 cr**
- ◊ UK Core ACR = 3 cr**
- BIO 303: Introduction to Evolution
  OR BIO 304: Principles of Genetics = 4 cr
- CHE 230: Organic Chemistry I = 3 cr
- CHE 231: Organic Chemistry Lab = 1 cr

**Total Credits: 17**

#### Spring
- +Foreign language 102 = 3
- ◊ UK Core HUM = 3 cr**
- ^Free Elective = 3 cr**
- BIO 303: Introduction to Evolution
  OR BIO 304: Principles of Genetics = 4 cr
- CHE 232: Organic Chemistry II = 3 cr

**Total Credits: 16**

### YEAR 3

#### Fall
- +Foreign language 201 = 3 cr
- PHY 211: General Physics I = 5 cr
- STA 296 = 3 cr
- Tier 2 BIO Course I (BIO 315/ BIO 325/ BIO 350 or BIO 430G) = 4 cr
- BIO 425: Biology Seminar = 1 cr

**Total Credits: 16**

#### Spring
- +Foreign language 202 = 3 cr
- PHY 213: General Physics II = 5 cr
- Tier 2 BIO Course II (BIO 315/ BIO 325/ BIO 350 or BIO 430G) = 4 cr
- *Biology Elective 1 = 3 cr**

**Total Credits: 15**

### YEAR 4

#### Fall
- ◊ A&S SS = 3 cr**
- ◊ UK Core CCC = 3 cr**
- Tier 2 BIO Course III (BIO 315/ BIO 325/ BIO 350 or BIO 430G) = 4 cr
- *Biology Elective 2 = 3 cr**
- *Biology elective 3 = 3 cr**

**Total Credits: 16**

#### Spring
- ◊ UK Core GDY = 3 cr**
- ◊ A&S HUM = 3 cr**
- ◊ A&S R&E = 3 cr**
- ^Free Elective = 3 cr**
- *Biology Elective 4 = 3 cr**
- *Biology Elective 5 = 3 cr**

**Total Credits: 18**

**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.**

See notes on next page.
Notes:
◊ The sequence in which UK-Core and A&S courses are taken does not matter. The sequence given in this plan is arbitrary.

# 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.

* 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 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 can get credit for the 101 and 102 level of the language. Then they only need to take the 201 or 202 level of the same language to complete the A&S Foreign Language Requirement, or they may complete the requirement with 3 college semesters of a different language. Students who have taken 4 years of a high school language may take the 203 level of the same language 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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