

As of February 8, 2023

2023-2024 Degree Map: B.A. Biology – Pre-Professional Concentration
School of Natural Sciences and Mathematics | Stockton University
USC1 – 240 | (609) 652-4546

This is a suggested plan of study for completion of this degree program. The **goal** of a Degree Map is to ensure that students graduate with no greater than 128 credits and in four years.

- All students should speak with their preceptor about their academic programs. Students are advised to reference their Degree Works for information about their program’s At-Some-Distance and Cognate courses.
- Transfer students may not need to take all courses in the plan; they should consult with an academic advisor.

| FIRST YEAR – FALL SEMESTER | |
|--|-------------------|
| BIOL 1200/1205 Cells & Molecules w/lab | 5 credits |
| MATH 1100 Precalculus ¹ Attribute: Q1 | 5 credits |
| CHEM 2110/2115 Chemistry I: General Principles w/lab ² Attribute: Q2 | 4 credits |
| FRST or G-course Attribute: First Year Seminar Optional Attributes: W1, A, H, I, R, and/or V | 4 credits |
| Total Course Load as of First Year Fall Semester | 18 credits |

| FIRST YEAR – SPRING SEMESTER | |
|---|-------------------|
| BIOL 1400/1405 Biodiversity & Evolution w/lab | 5 credits |
| CHEM 2140 Chemistry IV: Theory and Application ² Attribute: Q2 | 4 credits |
| FRST, ASD, or G-course Attribute: W1/W2; Optional Attributes: A, H, I, R, and/or V | 4 credits |
| FRST, ASD, or G-course Optional Attributes: A, H, I, R, and/or V | 4 credits |
| First Year Credit Total Overall | 35 credits |

| SECOND YEAR – FALL SEMESTER | |
|--|-------------------|
| CHEM 2120/2125 Chemistry II Organic Structure w/lab ² | 5 credits |
| CSIS or CIST 1206 Statistics Attribute: Q1 | 4 credit |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| Total Course Load as of Second Year Fall Semester | 52 credits |

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| SECOND YEAR – SPRING SEMESTER | |
|--|-------------------|
| CHEM 2130 Chemistry III: Organic Reactions ² | 4 credits |
| BIOL 2110/2115 Genetics w/lab Attribute: Q2 | 4 credits |
| BIOL 2600 Scientific Literacy ³ | 1 credit |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| Second Year Credit Total Overall | 65 credits |

| THIRD YEAR – FALL SEMESTER | |
|---|-------------------|
| PHYS 2110/2115 Physics for Life Sciences I w/lab Attribute: Q1 | 5 credits |
| BIOL 4600 Biology Seminar ⁴ | 1 credit |
| SOCY 1100 Introduction to Sociology Attribute: I OR PSYC 1100 Introduction to Psychology ⁵ | 4 credits |
| ASD or G-course Optional Attributes: A, H, I, R, and/or V | 4 credits |
| Total Course Load as of Third Year Fall Semester | 79 credits |

| THIRD YEAR – SPRING SEMESTER | |
|---|-------------------|
| PHYS 2120/2125 Physics for Life Sciences II w/lab Attribute: Q1 | 5 credits |
| CHEM 3250 Biochemistry ⁶ | 4 credits |
| SOCY 1100 Introduction to Sociology Attribute: I OR PSYC 1100 Introduction to Psychology ⁵ | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| Third Year Credit Total Overall | 96 credits |

| FOURTH YEAR – FALL SEMESTER | |
|--|--------------------|
| BIOL 3170 Microbiology | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| Total Course Load as of Fourth Year Fall Semester | 112 credits |

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| FOURTH YEAR – SPRING SEMESTER | |
|--|--------------------|
| Upper-level ecology (or plants) course ^{7,8} | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| ASD or G-course Optional Attributes: W, A, H, I, R, and/or V | 4 credits |
| Fourth Year Credit Total Overall | 128 credits |

Program Specific Notes

- * Credit for BIOL 1200/05, 1400/05, 2600, and 2110/2115 (**Attribute:** Q2) may only be earned with a C grade or higher. Students must have a minimum overall 2.0 GPA for all NAMS courses. No biology core or cognate course may be taken P/NC and be counted toward any degree track in biology.
1. Dependent on first-year math competency placement. MATH 1100 Precalculus (**Attribute:** Q1) is a prerequisite for BIOL 2110/2115 Genetics (**Attribute:** Q2).
 2. Since CHEM I and IV are ‘General Chemistry’ (**Attribute:** Q2) and CHEM II and III are ‘Organic Chemistry’, students may proceed to either CHEM II or IV (**Attribute:** Q2) after taking CHEM I with lab.
 3. Recommended in the Spring term of the second year.
 4. Recommended in the third year but may be taken in the second or fourth year.
 5. PSYC 1100 Introduction to Psychology and SOCY 1100 Introduction to Sociology (**Attribute:** I) are strongly recommended in preparation for the MCAT.
 6. Biochemistry is the second highest-tested natural science subject found on the MCAT exam, just after biology. It is therefore critical to success on the MCAT.
 7. **Ecology (Plants) requirement.** Biology majors must take at least ONE course that focuses on ecology and/or plants. Courses that will fulfill this requirement include (but are not necessarily limited to) the following: BIOL 2100 (**Attribute:** Q2) or 2120 or 2126 or 3180 or 3184 or 3365 or 3370 (**Attribute:** Holistic Health IMHL) or 3414 or 3416 or 3417 or 3419 or 3440 or 3465 or 3416 or 3450 or 3465 or ENVL 2200 or 3414 or 3416 or 3419 or MARS 3335 (**Attribute:** W2) or 3336 or 3416 or SUST 3440 or 3450. ***This course, however, must be 3000-level or higher if the student still needs to satisfy the upper-level course requirement.***
 8. **Upper-Level Biology requirement.** Biology majors must take at least 12 credits of upper-level biology (BIOL 3000-4999) at Stockton. Since CHEM 3250 (Biochemistry) and BIOL 3170 (Microbiology) count towards this requirement, students who take both of those courses need only 4 more upper-level biology credits. Independent studies may not be used for this requirement. Non-BIOL courses that **are allowed** to meet this requirement include: GEOL 3242, PHYS 3030 (**Attribute:** Behavioral Neuroscience IMBN), SUST 3450, MARS 3300, 3340, 3105 (**Attribute:** Q1), 3106 (**Attribute:** Q1), 3333, 3306, 3416, 3489, and ENVL 3423, 3426, 3121, 3136, 3413, 3433.