

As of February 8, 2023

2023-2024 Degree Map: B.S. Chemistry – Environmental 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	
Subject: FRST or G-course Optional Attribute: Seminar and a W1	4 credits
Subject: FRST or G-course Attribute: W1 OR W2	4 credits
CHEM 2110/215 CHEM I: General Principles w/lab ¹ Attribute: Q2	5 credits
MATH 1110 Precalculus (or other cognate if Calculus ready) ** Attribute: Q1	4 credits
Total Course Load as of First Year Fall Semester	17 credits

FIRST YEAR – SPRING SEMESTER	
Subject: FRST or G-course Attribute: A, H, I, R, and/or V	4 credits
Subject: ASD or G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 2120/2125 CHEM II: Organic Structure w/lab ¹	5 credits
MATH 2215 Calculus I Attribute: Q1	5 credits
First Year Credit Total Overall	35 credits

SECOND YEAR – FALL SEMESTER	
Subject: G-course Attribute: A, H, I, R, and/or V	4 credits
Subject: ASD or G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 2130 CHEM III: Organic Reactions ¹	4 credits
PHYS 2110/2115 Physics for Life Sciences I w/lab Attribute: Q1	5 credits
Total Course Load as of Second Year Fall Semester	52 credits

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SECOND YEAR – SPRING SEMESTER	
Subject: G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 2140 CHEM IV: Theory & Application ¹ Attribute: Q2	4 credits
PHYS 2120/2125 Physics for Life Sciences II w/ lab Attribute: Q1	5 credits
Second Year Credit Total Overall	65 credits

THIRD YEAR – FALL SEMESTER	
Subject: G-course Attribute: A, H, I, R, and/or V	4 credits
Subject: ASD or G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 3310 Lab Methods I ^{3,4} Attribute: Q2	4 credits
CHEM 3410 Physical Chemistry I ^{3,4} Attribute: Q2	4 credits
CHEM 4600 Chemistry Seminar ^{2,3,4}	2 credits
Total Course Load as of Third Year Fall Semester	83 credits

THIRD YEAR – SPRING SEMESTER	
Subject: G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 3320 Lab Methods II ^{3,5} Attribute: Q2, W2	5 credits
CHEM 3530 Environmental Chemistry ^{3,5}	4 credits
CHEM 3025 Organic Techniques ^{3,5}	1 credits
Third Year Credit Total Overall	97credits

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FOURTH YEAR – FALL SEMESTER	
Subject: ASD or G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 3580 Atmospheric Chemistry ^{3,7}	4 credits
ENVL 3432 Soil Science w/lab (Attribute: W2 – ENVL 3432 only) OR ENVL 3531 Soil Chemistry	4 credits
ENVL 4446 Remediation and Biotech	4 credits
CHEM 4800 Research ⁶	0 credits
Total Course Load as of Fourth Year Fall Semester	113 credits

FOURTH YEAR – SPRING SEMESTER	
Subject: G-course Attribute: W1/W2	4 credits
CHEM 4810 Senior Thesis ⁶	3 credits
ENVL 3434 Watershed Hydrology (Attribute: W2 ENVL 3434 only) OR ENVL 3435 Groundwater Hydrology	4 credits
ENVL 3302 Geographic Information Systems OR ENVL 4300 Environmental Issues (Attribute: V ENVL 4300 only)	4 credits
Fourth Year Credit Total Overall	128 credits

Program Specific Notes

- *A grade of C- or higher must be earned in all CHEM courses. Students must have a minimum overall 2.0 GPA for CHEM courses. CHEM 2110/2115 and CHEM 2120/2125 are not included when calculating the CHEM GPA. No chemistry core or cognate course may be taken P/NC and be counted toward any degree track in chemistry.
- **Dependent on first-year math competency placement. There are several variations possible in the selection and sequence of courses in the junior and senior years. Since flexibility is based on preparation, it is important to complete Calculus I as early as possible.
- ¹It is important to note that at Stockton, Chemistry I and IV are ‘General Chemistry’ while CHEM II and CHEM III are ‘Organic Chemistry’; thereby students may proceed to CHEM II or IV after taking CHEM I with lab.
- ²Students are encouraged to enroll in Chemistry Seminar before their senior year.
- ³All transfer students must complete a minimum of 16 credits in Stockton Chemistry courses at the 3000-level (except CHEM 3800, 3900, 3940, 4800, 4810 or 4900) regardless of how many credits were accepted when students transferred. One course must be a laboratory intensive course (CHEM 3110, 3310, 3320, 3350, 3420 or CHEM 3025). **Note**, CHEM 3035 Survey of Instrumentation is not open to chemistry majors.
- ⁴Course only offered in fall semesters.
- ⁵Course only offered in spring semesters.
- ⁶No more than 8 credits of research/internship may be counted toward meeting chemistry degree requirements.

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- ⁷CHEM 3580 Atmospheric Chemistry may be completed as an independent study.