

As of February 8, 2023

2023-2024 Degree Map: B.S. Chemistry – ACS Certified*
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: A, H, I, R, and/or V	4 credits
CHEM 2110/2115 CHEM I: General Principles w/lab ¹ Attribute: Q2	5 credits
MATH 2215 Calculus I ** Attribute: Q1	5 credits
Total Course Load as of First Year Fall Semester	18 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 2216 Calculus II Attribute: Q1	5 credits
First Year Credit Total Overall	36 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 Chemistry III: Organic Reactions ¹	4 credits
PHYS 2220/2225 Physics I w/lab Attribute: Q1	6 credits
Total Course Load as of Second Year Fall Semester	54 credits

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SECOND YEAR – SPRING SEMESTER	
CHEM 2140 CHEM IV: Theory & Application ¹ Attribute: Q2	4 credits
PHYS 2230/2235 Physics II with Lab Attribute: Q1	6 credits
BIOL 1200/1205 Cells & Molecules w/lab	5 credits
Second Year Credit Total Overall	69 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 ^{4,5} Attribute: Q2	4 credits
CHEM 3410 Physical Chemistry I ^{4,5} Attribute: Q2	4 credits
CHEM 4600 Chemistry Seminar ^{2,4,5}	2 credits
Total Course Load as of Third Year Fall Semester	87 credits

THIRD YEAR – SPRING SEMESTER	
Subject: G-course Optional Attribute: A, H, I, R, and/or V	4 credits
CHEM 3320 Lab Methods II ^{4,6} Attribute: Q2, W2	5 credits
CHEM 3420 Physical Chemistry II ^{4,6} Attribute: Q2, W2	4 credits
CHEM 3025 Organic Techniques ^{4,6}	1 credit
Third Year Credit Total Overall	101 credits

FOURTH YEAR – FALL SEMESTER	
Subject: G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 3110 Inorganic Chemistry ^{4,5}	4 credits
CHEM 4800 Research ⁷	0 credits
CHEM 3000 upper-level CHEM elective ^{3,4}	4 credits
Total Course Load as of Fourth Year Fall Semester	113 credits

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FOURTH YEAR – SPRING SEMESTER	
Subject: G-course Attribute: W1/W2	4 credits
Subject: ASD or G-course Attribute: A, H, I, R, and/or V	4 credits
CHEM 4810 Senior Thesis ⁷	3 credits
CHEM 3250 Biochemistry ^{3,4}	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 and a 2.3 GPA for all 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. The ACS certified degree track requires at least 44 credits in CHEM courses. If a student does not achieve a 2.3 CHEM GPA, but meets all other requirements for the B.S. General track, they will earn the B.S. degree in Chemistry without ACS certification.
- **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 & II 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.
- ³Students must complete at least two elective CHEM 3000-level courses not part of the chemistry core. These courses are offered on a rotating schedule and availability can be found through the course catalog. For the ACS certified degree track, CHEM 3250 counts as one of these courses. Note, CHEM 3035 Survey of Instrumentation is not open to chemistry majors. Independent student research and internship projects cannot be used to fulfill this requirement.
- ⁴All 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).
- ⁵Course only offered in fall semesters.
- ⁶Course only offered in spring semesters.
- ⁷No more than 8 credits of research/internship may be counted toward meeting chemistry degree requirements.

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