

As of February 8, 2023

**2023-2024 Degree Map: B.S. Chemistry - General**  
**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.

<b>FIRST YEAR – FALL SEMESTER</b>	
<b>Subject:</b> FRST or G-course <b>Optional Attribute:</b> Seminar and a W1	<b>4 credits</b>
Subject: FRST or G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
CHEM 2110/2115 CHEM I General Principles w/lab <sup>1</sup> <b>Attribute:</b> Q2	<b>5 credits</b>
MATH 2215 Calculus I** <b>Attribute:</b> Q1	<b>5 credits</b>
<b>Total Course Load as of First Year Fall Semester</b>	<b>18 credits</b>

<b>FIRST YEAR – SPRING SEMESTER</b>	
<b>Subject:</b> FRST or G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
Subject: ASD or G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
CHEM 2120/2125 CHEM II Organic Structure w/lab <sup>1</sup>	<b>5 credits</b>
MATH 2216 Calculus II <b>Attribute:</b> Q1	<b>5 credits</b>
<b>First Year Credit Total Overall</b>	<b>36 credits</b>

<b>SECOND YEAR – FALL SEMESTER</b>	
<b>Subject:</b> G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
<b>Subject:</b> ASD or G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
CHEM 2130 CHEM III Organic Reactions <sup>1</sup>	<b>4 credits</b>
PHYS 2220/2225 Physics I w/lab <b>Attribute:</b> Q1	<b>6 credits</b>
<b>Total Course Load as of Second Year Fall Semester</b>	<b>54 credits</b>

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<b>SECOND YEAR – SPRING SEMESTER</b>	
<b>Subject:</b> G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
CHEM 2140 CHEM IV Theory & Application <sup>1</sup> <b>Attribute:</b> Q2	<b>4 credits</b>
PHYS 2230/2235 Physics II w/lab <b>Attribute:</b> Q1	<b>6 credits</b>
<b>Second Year Credit Total Overall</b>	<b>68 credits</b>

<b>THIRD YEAR – FALL SEMESTER</b>	
<b>Subject:</b> G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
<b>Subject:</b> ASD or G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
CHEM 3310 Lab Methods I <sup>4,5</sup> <b>Attribute:</b> Q2	<b>4 credits</b>
CHEM 3410 Physical Chemistry I <sup>4,5</sup> <b>Attribute:</b> Q2	<b>4 credits</b>
CHEM 4600 Chemistry Seminar <sup>2,4,5</sup>	<b>2 credits</b>
<b>Total Course Load as of Third Year Fall Semester</b>	<b>86 credits</b>

<b>THIRD YEAR – SPRING SEMESTER</b>	
<b>Subject:</b> G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
CHEM 3320 Lab Methods II <sup>4,6</sup> <b>Attribute:</b> Q2, W2	<b>5 credits</b>
CHEM 3420 Physical Chemistry II <sup>4,6</sup> <b>Attribute:</b> Q2, W2	<b>4 credits</b>
CHEM 3025 Organic Techniques <sup>4,6</sup>	<b>1 credit</b>
<b>Third Year Credit Total Overall</b>	<b>100 credits</b>

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<b>FOURTH YEAR – FALL SEMESTER</b>	
<b>Subject:</b> ASD or G-course <b>Attribute:</b> A, H, I, R, and/or V	<b>4 credits</b>
CHEM 3110 Inorganic Chemistry <sup>4,5</sup>	<b>4 credits</b>
CHEM 3000 upper-level CHEM elective <sup>3,4</sup>	<b>4 credits</b>
CHEM 4800 Research <sup>8</sup>	<b>0 credits</b>
<b>Total Course Load as of Fourth Year Fall Semester</b>	<b>112 credits</b>

<b>FOURTH YEAR – SPRING SEMESTER</b>	
<b>Subject:</b> G-course <b>Attribute:</b> W1/W2	<b>4 credits</b>
CHEM 4810 Senior Thesis <sup>8</sup>	<b>4 credits</b>
CHEM 3000 upper-level CHEM elective <sup>3,4</sup>	<b>4 credits</b>
Program/cognate course <sup>7</sup>	<b>4 credits</b>
<b>Fourth Year Credit Total Overall</b>	<b>128 credits</b>

**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 & II as early as possible.
- <sup>1</sup>It 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.
- <sup>2</sup>Students are encouraged to enroll in Chemistry Seminar before their senior year.
- <sup>3</sup>Students 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. 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.
- <sup>4</sup>All 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).
- <sup>5</sup>Course only offered in fall semesters.
- <sup>6</sup>Course only offered in spring semesters.
- <sup>7</sup>Additional elective courses in Chemistry or in Chemistry related courses from supporting programs (i.e., cognates) such as Biology, Biochemistry/Molecular Biology, Physics, Mathematics, Geology, Marine Science or Computer Science and Information Systems.

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- <sup>8</sup>No more than 8 credits of research/internship may be counted toward meeting chemistry degree requirements.