

Suggested Study Plan For B.S. Chemistry Major (with MAC), 2025 onward

MX = Minerva; CIC = College Requirement; CW = College Writing

Freshman Year	
<u>Fall</u>	<u>Credits</u>
CHE 111, 112 General Chemistry I ^{F,S,Su} (MSDA)	3+1
FYE 101 Succeed at the G (Chem/Biochem Section) ^F (MFND)	3
Any Course in Written Communication (MWC) (Ex. ENG 101)	3
Any Course in Social/ Behavioral Science (MSBS)	3
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Freshman Year	
<u>Spring</u>	<u>Credits</u>
CHE 114, 115 General Chemistry II ^{F,S,Su} (MSDA)	3+1
MAT 190 Pre-Calculus (MQR) ^{F,S,Su}	4
Any Course in Oral Communications (MOC)	3
Any Course in CT in Natural Sciences (MNTS)	3
Any Course in Civics and Community (MCC)*	3 / 17

Sophomore Year	
<u>Fall</u>	<u>Credits</u>
CHE 342 Inorganic Chemistry I ^F (CIC-NDS)	3
CHE 351 ^{F, S,Su} ,353 ^F Organic Chem I & Lab	4 + 1
MAT 196 Calculus A (MQR) ^{F,S,Su}	4
Language or Culture (CIC)	3
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Sophomore Year	
<u>Spring</u>	<u>Credits</u>
CHE 352 Organic Chemistry II ^{F,S,Su}	3
CHE 355 Inter Organic Chemistry Lab ^S	2
PHY 291 General Physics I ^S	4
MAT 296 Calculus B ^{F,S,Su}	4
Language or Culture (CIC)	3/ 16

Junior Year	
<u>Fall</u>	<u>Credits</u>
CHE 331, 333 Quantitative Analysis & Lab (CW) ^F	3 + 1
PHY 292 General Physics II ^F	4
MAT 310, 390, or 396	3 or 4
Any Course in Health & Wellness (MHW)	3
	/ 14 or 15

Junior Year	
<u>Spring</u>	<u>Credits</u>
CHE 431, 433 Instrumental Analysis and Lab ^S	3 + 1
Any Course in Global & Intercultural Engagement (MGIL)	3
Any Course in Social & Behavioral Science (CIC)	3
Any Course in Humanities & Fine Arts (MHFA)	3
Any course in Humanities (CIC)	3 / 16

Senior Year	
<u>Fall</u>	<u>Credits</u>
CHE 401 Chemistry Seminar ^{F,S}	P/NP
CHE 481 Synthetic Techniques ^F (CW)	2
CHE 420 Biochemistry (Or CHE 456 & 457) ^F	3
CHE 461, 463 Physical Chemistry I & Lab ^F	4+1
Any course in Humanities (CIC)	3
Elective (CIC MNTS)	3 /16

Senior Year	
<u>Spring</u>	<u>Credits</u>
CHE 402 Chemistry Seminar ^{F,S}	1
CHE-442 Inorganic Chemistry II ^S	3
CHE 462, 464 Physical Chemistry II & Lab ^S	3 + 1
Advanced Elective for the Major	3
Elective	3
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* Starting Fall 2025, the MDEQ (Diversity and Equity) marker will be replaced by the MCC (Civics and Community) marker. However, students in the 2024 or earlier catalog years who have not completed their MDEQ requirement are no longer required to do so. They may take any 3-credit course as an elective instead. As a result, these students will need only 10 MAC competencies instead of 11. If a student has already taken a course with the MDEQ marker, it will count as their elective.

FOOTNOTES FOR B.S. CHEMISTRY STUDY PLAN

1. All BS majors must complete mathematics through at least MAT 296 (Calculus B). Depending on their individual mathematics background, some students may start with MAT 190 instead of MAT 196. MAT 190 is a one-semester precalculus course for science majors. Based on their scores on the Calculus Readiness Diagnostic Test (CRDT), students will begin their calculus journey in different math courses:

- High score: MAT 196
- Medium score: MAT 196 + MAT 181
- Low score: MAT 190
- Lower score: MAT 115 or MAT 183

See details here: <https://mathstats.uncg.edu/undergraduate/placement/calculus-diagnostic-test/>

2. **BS students (0-6 hours)** - can be satisfied in one of these three ways:

6 hours of additional language coursework related to a single language, between the 101-204 level, depending on their starting point in the language	3 hours of additional language coursework, between the 101-204 level, depending on their starting point in the language, and a CIC Culture course	6 hours of CIC Culture courses
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3. The sequence listed here for meeting the Minerva Academic Requirements (MAC) and College additional requirements (CIC) (identified by capital letters in parentheses) is a suggestion only and may be arranged to fit each student's particular situation. Note: Two College Writing courses must be completed.

4. Only major requirement and related area requirement courses at or below the 300-level in which grades of C- or better are earned will be counted toward the major. Students must earn a C- or better in prerequisite major requirement and related area requirement courses before advancing to subsequent courses. Students must have an overall GPA of at least 2.0 in CHE courses at UNC Greensboro.

5. Electives may be taken in any area, including chemistry, related sciences, and mathematics. CHE 491, 492 Independent Study is encouraged.

6. Chemistry and Biochemistry majors can register for CHE 401 any time after achieving junior status. All must register for CHE 402 in their last semester. A grade will be given in the semester CHE 402 is completed, based on presentation and attendance in CHE 401 and CHE 402. All majors are encouraged to attend seminar even if not registered for CHE 401 or CHE 402.

Major Requirements

CHE 111, 112, 114, 115, 331, 333, 342, 351, 352, 353, 355, 401 (audit), 402, 420 or (456 and 457 which counts as one course), 442, 461, 462, 463, 464, 481, 431, 433

Related Area Requirements

1. MAT 196, 296, and one of MAT 310, 390 or 396

2. PHY 291, 292

3. At least one course selected not selected above from: CHE 427, 490, 491, 492, (minimum of 2 credit hours total for any combination of 491 and 492 count as one course), 493, 436, 453, 455, 470, 468 (minimum 2 credit hours total for any combination of CHE 470 courses, counts as one course); BIO 355, 392, 406, 479 & 479L; CSC 230, 330, 339, 427; **STA 271**; MAT 310, 311, 390, 394, 395; PHY 321, 323, 325, 327, 412, 421. Independent study, CHE 491, 492 is encouraged. These electives may be taken earlier than the senior year if prerequisites permit.