

# Suggested Study Plan For B.A. Chemistry Major with Secondary Science Licensure (with MAC), 2025 onward

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

<b>Freshman Year</b>	
<u>Fall</u>	<u>Credits</u>
CHE 111, 112 General Chemistry I <sup>F,S,Su</sup> (MSDA)	3+1
FYE 101 Succeed at the G (Chem/Biochem Section) <sup>F</sup> (MFND)	3
Any Course in Written Communication (MWC) (Ex. ENG 101)	3
Any Course in Social/ Behavioral Science (MSBS)	3
Any Course in Humanities & Fine Arts (MHFA)	3 / 16

<b>Freshman Year</b>	
<u>Spring</u>	<u>Credits</u>
CHE 114, 115 General Chemistry II <sup>F,S,Su</sup> (MSDA)	3+1
MAT 190 Pre-Calculus (MQR) <sup>F,S,Su</sup>	4
Any Course in Oral Communications (MOC)	3
BIO 111 + 111L Lab	3+1
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<b>Sophomore Year</b>	
<u>Fall</u>	<u>Credits</u>
CHE 342 Inorganic Chemistry I <sup>F</sup> (CIC-NDS)	3
CHE 351 <sup>F, S,Su</sup> , 353 <sup>F</sup> Organic Chem I & Lab	4 + 1
BIO 112 + 112L Lab	3+1
MAT 196 Calculus A (MQR) <sup>F,S,Su</sup>	4
	/ 16

<b>Sophomore Year</b>	
<u>Spring</u>	<u>Credits</u>
CHE 352 Organic Chemistry II <sup>F,S,Su</sup>	3
CHE 355 Inter Organic Chemistry Lab <sup>S</sup>	2
MAT 296 Calculus B <sup>F,S,Su</sup>	4
PHY 211 (MNTS) or PHY 291 Physics I <sup>S</sup>	4
Foreign Language 1 (CIC1)	3/ 16

<b>Junior Year</b>	
<u>Fall</u>	<u>Credits</u>
CHE 331, 333 Quantitative Analysis & Lab (CW) <sup>F</sup>	3 +1
PHY 212 (MNTS) or PHY 292 Physics II <sup>F</sup>	4
TED 445 Human Diversity, Teaching and Learning	3
ERM 401 Assessment I: Account. In Nations Schools	1
Foreign Language 2 (CIC2)	3
Any Course in Global & Intercultural Engagement (MGIL)	3/ 18

<b>Junior Year</b>	
<u>Spring</u>	<u>Credits</u>
Advanced Elective for the Major (One elective course above 100 level needs to be CW)	3
Foreign Language 3 (CIC3)	3
Any Course in Civics and Community (MCC)*	3
SES 401, ERM 402, TED 403	1+1+1
Any Course in Health & Wellness (MHW)	3
	3 /18

<b>Senior Year</b>		
<u>Fall</u>		<u>Credits</u>
CHE 401 Chemistry Seminar	<sup>F,S</sup>	P/NP
CHE 406 or 461 Physical Chemistry I	<sup>F</sup>	4
Advanced Elective for the Major		3
Culture or Foreign Language 4 (CIC4)		3
TED 435 Literacy in the Content Area		3
TED 459 Teaching Practices and Curriculum in Science		3
		/16

<b>Additional Semester</b>	
CHE 402 Chemistry Seminar F,S	1
GES Elective	3
Any course in Humanities (CIC)	3
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LIS 120	3/13


\*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.A. CHEMISTRY STUDY PLAN

1. All B.A. 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. **BA students (0-12 hours) – Language and Culture** can be satisfied in one of these three ways:

1. Successfully complete a 203 course in an additional language and complete a 204 course in the same language.
2. Successfully complete a 203 course in an additional language and complete a CIC Culture course.

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. General Electives may be taken in any area, including chemistry, related sciences, and mathematics.

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, 191, 331, 333, 342, 351, 352, 353, 355, 401 (audit), 402, 406 or 461

**Related Area Requirements**

1. MAT 196, 296

2. PHY 211 & 212 or 291, 292

3. At least two courses selected from: CHE 420, CHE 456 & 457 (counts as one course), CHE 442, CHE 481, CHE 431, CHE 436, CHE 453, CHE 455

**Licensure Requirements**

ERM 401, 402, 403, LIS 120, SES 401, TED 401, 403, 435, 445, 459, 465, 469

**Special Note-** Students entering with AP credit, having strong math and language foundations, or taking some summer school classes can finish in four years.

An alternative approach is to complete the BA degree in Chemistry and then complete the licensure requirements as an MAT degree.