

Suggested Study Plan For B.S. Chemistry with Concentration in Research

See ACS Certification Option*

Freshman Year	
<u>Fall</u>	<u>Sem. Hours</u>
CHE 111, 112 General Chemistry I ^{F,S,Su}	4
CHE 170 Engaging in Chem&Biochem	1
MAT 151 PreCalculus II ^{F,S,Su} or MAT 190	3
ENG 101 (GRD1)	3
Foreign Language (GFL1)	3
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Freshman Year	
<u>Spring</u>	<u>Sem. Hours</u>
CHE 114 General Chemistry II ^{F,S,Su}	3
CHE 191 Introduction To Research ^{F,S,Su}	1
MAT 191 Calculus I ^{F,S,Su} (GMT)	3
Reasoning & Discourse (GRD2)	3
Foreign Language (GFL2)	3
Elective	3 / 16

Sophomore Year	
<u>Fall</u>	<u>Sem. Hours</u>
CHE 342 Inorganic Chemistry ^F	3
CHE 351 ^{F,S,Su} , 353 ^F Organic Chem I & Lab	5
CHE 291 Sophomore Research	3
MAT 292 Calculus II ^{F,S,Su}	3
Foreign Language (GFL3)	3/ 17

Sophomore Year	
<u>Spring</u>	<u>Sem. Hours</u>
CHE 352 Organic Chemistry II ^{S,Su}	3
CHE 355 Inter Organic Chemistry Lab ^S	2
CHE 292 Sophomore Research	3
PHY 211 General Physics I ^{F, S, Su}	4
Foreign Language (GFL4)	3/ 15

Junior Year	
<u>Fall</u>	<u>Sem. Hours</u>
CHE 331, 333 Quantitative Analysis ^F	4
CHE 391 Junior Research	3
PHY 212 General Physics II ^F	4
Social/ Behavioral Science (GSB1)	3
Literature (GLT1)	3 / 17

Junior Year	
<u>Spring</u>	<u>Sem. Hours</u>
CHE 392 Junior Research	4
Social/ Behavioral Science (GSB2)	3
Life Science (GLS)	3
Historical Perspective (GHP-GPM)	3
Historical Perspective (GHP-GMO)	3/16

Senior Year	
<u>Fall</u>	<u>Sem. Hours</u>
CHE 401 Chemistry Seminar ^{F,S}	P/NP
CHE 491 Senior Research	3
CHE 406 Introductory Physical Chemistry ^F	4
Advanced Chemistry Elective	3
Social/ Behavioral Science (GSB3)	3
Literature (GLT2)	3 / 16

Senior Year	
<u>Spring</u>	<u>Sem. Hours</u>
CHE 402 Chemistry Seminar ^{F,S}	1
CHE 492 Senior Research	2
CHE 499	1
Advanced Chemistry Elective	2-3
Philosophical, Religious, Ethical Princ (GPR)	3
Fine Arts (GFA)	3/13

Marker Courses: Four GL/GN; Two SI (one in major); Four WI (one in major, one >300 level)

*Students completing the BS Chemistry with Concentration in Research degree can complete the requirements necessary to have the degree certified by the American Chemical Society. By choosing CHE 420 for the Advanced Chemistry Elective, two more advanced chemistry courses, and adding one lab course beyond CHE 333 and CHE 355 to the degree, the degree will be certified.

FOOTNOTES FOR STUDY PLAN FOR B.S. CHEMISTRY WITH CONCENTRATION IN RESEARCH

1. All B.S. with Concentration in Research majors must complete mathematics at least through MAT 292 Calculus II. Depending upon the individual mathematics background*, some students may start with MAT 150 rather than MAT 151 and extend the sequence of math courses by one semester. MAT 190 is a one-semester precalculus course for science majors. Majors are strongly advised to elect additional advanced mathematics courses. A Math Placement Test should be taken. (*See <http://www.uncg.edu/mat/undergraduate/mathplacetest.html>)
2. If the student is able to begin Foreign Language at the intermediate level in the Freshman Year, a second year of language may not be required. The requirement is Foreign Language through the Intermediate (204) level.
3. The sequence listed here for meeting the General Education Requirements (GEC) and College Additional Requirements (CAR) (identified by capital letters in parentheses) is a suggestion only and may be arranged to fit each student's particular situation. Note: Four Writing Intensive, two Speaking Intensive, and four Global (including one nonwestern) marker 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. Additional hours may be taken in the major and related areas.
6. Senior Chemistry majors should register for CHE 401 in their second last semester and attend seminar, whether or not they plan to present a seminar this first semester. All must register for CHE 402 in their last semester. A grade will be given in the second semester, based on presentation and attendance in CHE 401 and CHE 402. Juniors are encouraged to attend.

Major Requirements

1. CHE 111*, 112*, 114, 191, 291, 292, 331, 333, 342, 351, 352, 353, 355, 391, 392, 401 (audit), 402, 406, 491, 492.
2. Two courses from among: CHE 420 or 556 and 557 (which count as one course), 442, 481, 431, 453, 455.

Related Area Requirements

1. MAT 191*, 292
2. PHY 211, 212 or 291*, 292