

## PROGRAM SUMMARY

- **Credit Hours:** 120
- **Concentrations:**
- **Declaring the Major:** minimum GPA of 2.0; no pre-requisite courses; change of major form accepted year-round; advising session recommended to declare the major.
- **Advising (For the Major):** completed by your chemistry faculty advisor (please refer to your 49er Banner account to find your advisor); required during pre-registration every semester.
- **Advising (For General Education):** by chemistry faculty advisor and CLAS Advising Center.
- **Minimum Grades/GPA:** Must achieve a cumulative GPA of 2.0 or greater and a minimum GPA of 2.0 in the major in order to graduate.
- **Teacher Licensure:** Yes (BA degree with a minor in secondary education)
- **Evening Classes Available:** No (degree cannot be completed at night)
- **Weekend Classes Available:** No
- **Other Information:** undergraduate research opportunities; honors; early entry to MS Program.
- **Contact(s):** Ms. Susan Michael, Chemistry Advising Coordinator, Burson 140, 704-687-1660, [smichael@uncc.edu](mailto:smichael@uncc.edu)

## PROGRAM REQUIREMENTS

The Department of Chemistry offers two BS degree programs approved by the American Chemical Society (ACS) and two non-ACS-certified BS degree programs, which provide the background necessary for a career in industry or for graduate studies in chemistry and related fields. In addition, a BA degree in chemistry is available for students who plan to pursue a career in chemical industry, secondary education, or professional studies in areas such as pharmacy and optometry. Degree requirements for the BS, BA, and BS + MS degree programs are available online. A minimum chemistry GPA of 2.0 is required in the BS and BA degree programs. The BS degree is very structured and the BA degree is relatively structured.

Areas	Credit Hours	Description
<b>Pre-Major/Prerequisites</b>	-	
<b>Major</b>	32-48	Hours depend on degree and concentration. Required courses in the major will count towards university General Education requirements for Natural Sciences, Oral Communications and Writing Intensive in the Major requirement. Required courses in the related work will count towards university General Education requirements for Mathematics.
<b>General Education</b> (not satisfied by other major requirements)	21-24	Hours do not include those requirements which are satisfied within the major. Transfer students with an associate's degree are exempt from most General Education, but must complete Writing Intensive in the Major requirement.
<b>Related Work</b>	14-20	Mathematics and Physics courses. May be satisfied by a second major or a minor. Consult with an advisor.
<b>Foreign Language</b>	0-8	Foreign language proficiency through the 1202 level is required. Proficiency may be demonstrated by proficiency testing, 3 years of foreign language in high school, or 1201/1202 course completion.
<b>Electives</b>	20-53	As needed to complete 120 hours total.
<b>Total Credit Hours</b>	120	

## SUGGESTED PLAN OF STUDY – B.A. IN CHEMISTRY

The schedule outlined below provides one possible route for completing the B.A. degree in Chemistry in four years; students may tailor the sample schedule to meet their needs. Students should consult with their academic advisor every semester to discuss progress towards obtaining their degree.

### Freshman Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
CHEM 1251	Principles of Chemistry I	3	X		Prerequisite: MATH 1100 with C or better (or equivalent math level) or CHEM 1200 with C or better
CHEM 1251L	Principles of Chemistry I Laboratory	1	X		
MATH 1241	Calculus I	3	X		Prerequisite MATH 1103 or appropriate math level
UWRT 1101	Writing and Inquiry in Academic Contexts I (or UWRT 1103)	3	X		UWRT 1103 is based on placement test
LBST 11XX	LBST Series 1100: Arts and Society	3	X		
XXXX XXXX	Foreign Language 1201 (or Elective if needed)	3-4			
<i>Spring Semester</i>					
CHEM 1252	Principles of Chemistry II	3	X		Prerequisite CHEM 1251+L with grade of C or better
CHEM 1252L	Principles of Chemistry II Laboratory II	1			
MATH 1242	Calculus II	3	X		Prerequisite MATH 1241 with C or better
UWRT 1102	Writing and Inquiry in Academic Contexts II	3	X		Not required if UWRT 1103 was taken
XXXX XXXX	Social Science General Education Requirement	3	X		
XXXX XXXX	Foreign Language 1202 (or Elective in needed)	3-4			

32-34 Credit Hours for Year

### Sophomore Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
CHEM 2131	Organic Chemistry I	3			Prerequisite CHEM 1251+L, 1252+L with C or better
CHEM 2131L	Organic Chemistry I Laboratory	1			
PHYS 1101	Introductory Physics I	3			
PHYS 1101L	Introductory Physics I Laboratory	1			
LBST 2101	Western Cultural and Historical Awareness	3	X		
XXXX XXXX	Elective	3			
<i>Spring Semester</i>					
CHEM 2132	Organic Chemistry II	3			Prerequisite CHEM 2131+L with grade of C or better
CHEM 2132L	Organic Chemistry II Laboratory	1			
PHYS 1102	Introductory Physics II	3			Prerequisite PHYS 1101+L with grade of C or better
PHYS 1102L	Introductory Physics II Laboratory	1			
LBST 2102	Global and Intercultural Connections	3	X		
XXXX XXXX	Elective	3			

28 Credit Hours for Year

### Junior Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
CHEM 3111	Quantitative Analysis	4			Prerequisite CHEM 1252+L with grade of C or better
LBST 22XX	LBST 2200 Series: Ethical Issues and Cultural Critique	3	X		
XXXX XXXX	Writing Intensive Course	3	X	W	
XXXX XXXX	Two Electives	6			
<i>Spring Semester</i>					
CHEM 2141	Survey of Physical Chemistry (Spring Only)	3			Prerequisites CHEM 1252+L (C or better), MATH 1241, PHYS 1101
CHEM 3695	Seminar	1		W	
XXXX XXXX	Three or more Electives	8-12			

29 -32 Credit Hours for Year

### Senior Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
CHEM 4165	Principles of Biochemistry I (or other CHEM elective)	3			Prerequisite CHEM 2132 with grade of C or better
CHEM 4695	Chemistry Seminar I	1	X	W,O	Prerequisite CHEM 3695
XXXX XXXX	Four Electives	12			
<i>Spring Semester</i>					
CHEM 2125	Inorganic Chemistry (Spring Only)	3			Prerequisite CHEM 1252 with grade of C or better
CHEM 4696	Chemistry Seminar II	1		W,O	Prerequisite CHEM 4695
XXXX XXXX	Four Electives	11-12			

31-32 Credit Hours for Year

## ADVISING RESOURCES

- General Education Requirements for ALL Students: [ucol.uncc.edu/general-education](http://ucol.uncc.edu/general-education)
- Undergraduate Catalog: [catalog.uncc.edu](http://catalog.uncc.edu)
- Central Advising website: [advising.uncc.edu](http://advising.uncc.edu)
- College of Liberal Arts & Sciences advising website: [clas.uncc.edu/students/advising-news/](http://clas.uncc.edu/students/advising-news/)
- University Advising Center website: [advisingcenter.uncc.edu](http://advisingcenter.uncc.edu)