

This four year guide is a recommended semester-by semester plan of study for this major. All four year guides are meant as examples of how a degree can be completed in four years. Individual plans will be developed for each student in consultation with the academic advisor. Prior credit, course availability, and student needs must be considered in developing the individual plan.

Shaded areas of plan require special attention.

Course Subject and Title	Credit Hours	Min. Grade Required	Included in Major GPA	Important Notes POS = Program of Study
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Semester One: [17 Credit Hours]				
RC 1000	3			May be taken in Fall or Spring of first year
CHE 1101 & 1110	4		X	Also meets Gen Ed Science Inquiry requirement (<i>PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1110 and corequisite MAT 1020 or higher if math prerequisite not met.</i>)
MAT 1110	4	C-	X	Also meets Gen Ed Quantitative Literacy requirement (<i>PRE: MAT 1025 or equivalent test score</i>)
Liberal Studies Experience Course (LSE) 1	3			HS or LS or FA or SS Designation
Integrative Learning Experience (ILE) Course 1	3			
Semester Two: [15 Credit Hours]				
UCO 1200	3			May be taken in Fall or Spring semester of first year
CHE 1102 & 1120	4		X	Also meets Gen Ed Science Inquiry requirement (<i>PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1120 and corequisite MAT 1020 or higher if math prerequisite is not met.</i>)
MAT 1120	4		X	
LSE Course 2	3			HS or LS or FA or SS Designation
Gen Ed Wellness Literacy	1			
Semester Three : [16 Credit Hours]				
RC 2001	3			May be taken in Fall or Spring of sophomore year
CHE 2201 & 2203	4	C-	X	
PHY 1170 and 1160	5		X	PHY 1170/1160 & 1180/1161 must be completed prior to fall semester of junior year as prerequisite to CHE 3301 & 3303
BIO 1801	4		X	
Semester Four: [16 Credit Hours]				
CHE 2202 & 2204	4	C-	X	Min grade of C- required in CHE 2202 as prerequisite to CHE 4580 required course
PHY 1180 and 1161	5		X	Requires lab
CHE 2210 & 2211	4		X	
ILE Course 2	3			HS or LS or FA or SS Designation
Semester Five: [13 Credit Hours]				
CHE 3301 & 3303	4		X	
CHE 3000	1		X	[WID]
CHE 4580	3	C-	X	Min grade C- required in CHE 4580 as prerequisite to CHE 4582
CHE 4581	1			
LSE Course 3	3			
Gen Ed Wellness Literacy	1			

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Semester Six: [14-15 Credit Hours]				
BIO 2600 & 2610	4		X	
BIO 2400 or 2700	3		X	
BIO 2410	1		X	
CHE 4582	3		X	Offered in Spring semester only
Biochemistry Elective 1	3-4		X	Choose one course from the electives list under Biochemistry Electives ; A total of 11-12 hours required; A minor in Biology may be possible if 14 hours of BIO courses at or above the 2000 level are taken
Semester Seven: [16-17 Credit Hours]				
BIO 3800	4		X	
CHE 3404	3		X	Offered Fall semester only
LSE Course 4	3			HS or LS or FA or SS Designation
ILE Course 3	3			
Biochemistry Elective 2	3-4		X	Choose one course from the electives list under Biochemistry Electives ; A total of 11-12 hours required
Semester Eight: [11-13 Credit Hours]				
CHE 4000	1		X	CAPSTONE
Biochemistry Elective 3	3-4		X	Choose one course from the electives list under Biochemistry Electives ; A total of 11-12 hours required
Biochemistry Elective 4	3-4		X	If needed to meet Biochemistry Electives hours; if not needed, take Free Electives to meet the 120 hours required for the degree
Free Elective	3			
Free Elective	1			If needed to reach the 120 hours required for the degree

General Requirements Summary				
Minimum Total Hours	Gen Ed. Hours	Writing	Minimum	
			Major GPA	Overall GPA
120	44	RC 1000 and RC 2001	2.0	2.0

All CHE courses and all courses in Major Requirements area on Program of Study count in major GPA.

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General Education Program Model - 44 Semester Hours Total		
Program Categories	Hours	Important Notes – <i>Be sure to check for Gen Ed courses required in your major</i>
First Year Seminar	3	Can be taken first or second semester of freshman year
Wellness Literacy	2	
Quantitative Literacy	4	
First Year Writing	3	Can be taken first or second semester of freshman year
Sophomore Writing	3	
Integrative Learning Experience	9	Must choose a minimum of two disciplines
Liberal Studies Experience	12	Must choose a minimum of three disciplines
Science Inquiry	8	
<p>You must also meet the Fine Arts, Literary Studies, Historical Studies, and the Social Science Designations. Those may be met within the Integrative Learning Experience and the Liberal Studies Experience.</p>		

Additional Notes:

- Honors students may opt to complete CHE 4510 Honors Thesis (1 hour). Please see department for more information.
- A minor in Biology is possible if at least 14 hours of biology at or above the 2000 level are taken. Students should declare the biology as soon as they realize they plan to meet these requirements.
- Residency Requirements:
 - 30 hours must be from Appalachian State University
 - 18 hours in the major must be from Appalachian State University
 - 9 hours in the minor must be from Appalachian State University
- Please consult with your advisor to ensure you will complete the appropriate number of free electives as needed to reach the 120 total hours required for your degree.