## 2023 - 2024 Major Map

# Chemistry (Environmental Chemistry), BS

School/College: The College of Liberal Arts and Sciences LACHMEBS

4			
	С	<ul> <li>ASU 101 or college-specific equivaler First-Year Seminar required of all first-year students.</li> <li>Select your Career Interest Areas and play me3@ASU.</li> </ul>	
4-3	С		
3	С		
1			
3			
15-14			
Hours	Minimum Grade	Notes	
4	С	• Connect with a career advisor by registering for a Handshake account.	
4-3	С		
3	С		
3	С		
1	С		
15-14			
Hours	Minimum Grade	Notes	
3	С	• Create a first draft resume.	
1	С		
3	С		
4-3	С		
1	С		
3			
-	1 3 15-14 Hours 4 4-3 3 1 15-14 Hours 3 1 3 4-3 1 3 4-3 1 3	1         3         15-14         Hours       Minimum Grade         4       C         4.3       C         3       C         3       C         3       C         1       C         15-14       C         3       C         3       C         1       C         15-14       Minimum Grade         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3       C         1       C         3	

Term 4 45 - 60 Credit Hours Critical course signified by �		Minimum Grade	
CHM 240: Mathematical Methods in Chemistry (CS)	3	С	
CHM 234: General Organic Chemistry II	3	С	
CHM 238: General Organic Chemistry Laboratory II	1	С	
Literacy and Critical Inquiry (L)	3		
Complete 2 courses: Elective	5		
Term hours subtotal:	15		

• CHM 240 is only offered in the Spring semester.

Notes

• Transfer students may need to take MAT 274 or MAT 275 (Differential Equations) and MAT 242 (Linear Algebra) in place of the 5 credit hours of Electives. These two courses will allow students to meet Term 4 critical tracking and the prerequisites for CHM 345 in Term 5. Will still require a substitution; discuss options with major advisor.

°erm 5 60 - 76 Credit Hours Necessary course signified by 🔀	Hours	Minimum Grade	Notes	
CHM 302: Environmental Chemistry	3	С	• CHM 302, CHM 345, and CHM 348 are	
CHM 345: Physical Chemistry I	3	С	only offered in the Fall semester.	
CHM 348: Physical Chemistry Laboratory I (L)				
Science and Society Elective	3	С		
Humanities, Arts and Design (HU) AND Global Awareness (G)	3			
Elective	3			
Term hours subtotal:	16			
erm 6 76 - 91 Credit Hours Necessary course signified by 🔀	Hours	Minimum Grade	Notes	
BCH 361: Advanced Principles of Biochemistry	3	С	<ul> <li>CHM 303 is only offered in the Spring semester.</li> <li>Explore internship opportunities.</li> </ul>	
BCH 367: Elementary Biochemistry Laboratory	1	С		
CHM 303: Environmental Chemistry Laboratory (L)	2	С		
Social-Behavioral Sciences (SB)	3			
Complete 2 courses: Upper Division Elective	6			
Term hours subtotal: 'erm 7 91 - 107 Credit Hours Necessary course signified by 🛠		Minimum	Notes	
A	110010	Grade	10000	
CHM 325: Analytical Chemistry	3	С	• CHM 326 is only offered in the Fall	
GLG 321: Mineralogy	3	С	<ul><li>semester and must be taken on the Tempe campus.</li><li>GLG 321 is only offered in the Fall semester.</li><li>Apply for full-time career opportunities</li></ul>	
CHM 326: Advanced Analytical Chemistry Laboratory	1	С		
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3			
Elective	3			
Upper Division Elective OR CHM 484: Internship	3			
Term hours subtotal:	16			
erm 8 107 - 120 Credit Hours Necessary course signified by 😭	Hours	Minimum Grade	Notes	
٨_	3	С	• CHM 481 is only offered in the Spring	
CHM 481: Geochemistry			CHIVE 461 IS ONLY OTHERED IN THE Spring	
CHM 481: Geochemistry Upper Division Science and Society Elective	3	С	semester.	

Term hours subtotal:

13

• All students pursuing a BS or BSP degree in The College of Liberal Arts and Sciences must complete two courses from the Science and Society list found at <a href="https://thecollege.asu.edu/resources/science-society">https://thecollege.asu.edu/resources/science-society</a>. At least one of the two courses must be upper-division and students must earn a C or better in the courses. Both Science and Society courses (i.e., all six credits) may count towards any major, minor, related fields, and ASU General Studies requirements.

#### Hide Course List(s)/Track Group(s)

Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: https://cisa.asu.edu/DSP
- Mathematics Placement Assessment score determines placement in first mathematics course.

Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.

Total Hours: 120 Upper Division Hours: 45 minimum Major GPA: 2.00 minimum Cumulative GPA: 2.00 minimum Total hrs at ASU: 30 minimum Hrs Resident Credit for Academic Recognition: 56 minimum Total Community College Hrs: 64 maximum Total College Residency Hrs: 12 minimum

### **General University Requirements Legend**

- General Studies Core Requirements:
- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science Quantitative (SQ)
- Natural Science General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

#### First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2023 - 2024 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.