2024 - 2025 Major Map

Chemistry, **BA**

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

Ferm 1 0 - 15 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	
 CHM 117: General Chemistry for Majors I (SCIT OR SQ) AND CHM 111: General Chemistry Laboratory for Majors I (SCIT OR SQ) OR CHM 113: General Chemistry I (SCIT OR SQ) 	4	С	 ASU 101 or college-specific equivalen First-Year Seminar required of all first-year students. Students placing into lower level math can still graduate in 4 years see an academic advisor for planning. Select your Career Interest Areas and play me3@ASU. 	
MAT 270: Calculus with Analytic Geometry I (MATH OR MA) OR MAT 265: Calculus for Engineers I (MATH OR MA)	4-3	С		
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	С		
LIA 101: Student Success in The College of Liberal Arts and Sciences	1		CHM 117 and CHM 111 are introductory courses created specifically for students in the Discharging of	
Social and Behavioral Sciences (SOBE)	3		for students in the Biochemistry or Chemistry majors. Students are strongl	
Term hours subtotal:	15-14		encouraged to select these course options.	

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Term 2 15 - 29 Credit Hours Critical course signified by 🔶		Minimum
		Grade
CHM 118: General Chemistry for Majors II (SCIT OR SQ) AND		
CHM 112: General Chemistry Laboratory for Majors II (SCIT OR	4	С
SQ) OR CHM 116: General Chemistry II (SCIT OR SQ)		
ENG 101 or ENG 102: First-Year Composition OR		
ENG 105: Advanced First-Year Composition OR	3	С
ENG 107 or ENG 108: First-Year Composition		
Governance and Civic Engagement (CIVI)	3	
Second Language: Requirement satisfied through the following:		
* Completion of a language course at the intermediate level (202 or	4	С
equivalent), including American Sign Language IV.		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).		
Term hours subtotal:	14	

Term 3 29 - 44 Credit Hours Critical course signified by �	Hours	Minimum Grade	
OHM 233: General Organic Chemistry I	3	С	
CHM 237: General Organic Chemistry Laboratory I	1	С	
PHY 111: General Physics (SCIT OR SQ)	3	С	
PHY 113: General Physics Laboratory (SCIT OR SQ)	1	С	
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	С	
Quantitative Reasoning (QTRS)	3		
Complete First-Year Composition requirement.			

• ASU Language Placement: Only true
beginners are eligible for 101-level
courses. All other students are required
to take a placement exam, regardless of
prior credit earned.

Notes

- Connect with a career advisor by registering for a Handshake account.
- CHM 118 and CHM 112 are introductory courses created specifically for students in the Biochemistry or Chemistry majors. Students are strongly encouraged to select these course options.

Notes

• Discuss study abroad opportunities with a School of Molecular Sciences advisor or an International Coordinator. Complete Mathematics (MATH) requirement.

Term hours subtotal:	15			
Cerm 4 44 - 59 Credit Hours Critical course signified by ᡐ	Hours	Grade	Notes	
PHY 112: General Physics (SCIT OR SQ)	3	С	• Create a first draft resume.	
CHM 234: General Organic Chemistry II	3	С	e create a first trait resume.	
CHM 238: General Organic Chemistry Laboratory II	1	С		
PHY 114: General Physics Laboratory (SCIT OR SQ)	1	С		
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	С		
Humanities, Arts and Design (HUAD)	3			
Term hours subtotal:	15			
Cerm 5 59 - 74 Credit Hours Necessary course signified by 🔀	Hours	Minimum Grade	Notes	
숨 CHM 325: Analytical Chemistry	3	С	• CHM 326 is only offered in the Fall	
CHM 326: Advanced Analytical Chemistry Laboratory	1	С	semester.	
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	С	CHM 325 and CHM 326 may be tal in Term 7.This is an ideal semester to study	
Complete 2 courses: Upper Division Elective	7		abroad.	
Term hours subtotal:	15			
Cerm 6 74 - 90 Credit Hours Necessary course signified by 🔀	Hours	Minimum Grade	Notes	
☆ CHM 341: Elementary Physical Chemistry	3	С	• Explore internship opportunities.	
CHM 343: Elementary Physical Chemistry Laboratory	1	С		
Humanities, Arts and Design (HUAD)	3			
Complete 3 courses: Upper Division Elective	9			
Term hours subtotal:	16			
Cerm 7 90 - 105 Credit Hours Necessary course signified by 🛠 🛛 H	Hours	Minimum Grade	Notes	
CHM 453: Inorganic Chemistry	3	С	• Apply for full-time career opportunities.	
American Institutions (AMIT)	3	C	• Apply for full-time career opportunities.	
American Institutions (AMIT) Upper Division Elective OR CHM 484: Internship	3		• Students should take BCH 361/367 as the	
American Institutions (AMIT) Upper Division Elective OR CHM 484: Internship <i>Complete 2 courses:</i> Upper Division Elective	3 3 6		 Apply for full-time career opportunities. Students should take BCH 361/367 as the major electives to ensure competitiveness in pre-health programs where required and/or science industry related careers. 	
American Institutions (AMIT) Upper Division Elective OR CHM 484: Internship Complete 2 courses:	3 3 6		 Students should take BCH 361/367 as the major electives to ensure competitiveness in pre-health programs where required 	
American Institutions (AMIT) Upper Division Elective OR CHM 484: Internship Complete 2 courses: Upper Division Elective Term hours subtotal:	3 3 6		 Students should take BCH 361/367 as the major electives to ensure competitiveness in pre-health programs where required 	
American Institutions (AMIT) Upper Division Elective OR CHM 484: Internship Complete 2 courses: Upper Division Elective Term hours subtotal: Term 8 105 - 120 Credit Hours Necessary course signified by	3 3 6 15 Hours 3	Minimum	 Students should take BCH 361/367 as the major electives to ensure competitiveness in pre-health programs where required and/or science industry related careers. Notes	
American Institutions (AMIT) Upper Division Elective OR CHM 484: Internship Complete 2 courses: Upper Division Elective Term hours subtotal: Cerm 8 105 - 120 Credit Hours Necessary course signified by 🕎	3 3 6 15 Hours 3	Minimum Grade	 Students should take BCH 361/367 as the major electives to ensure competitiveness in pre-health programs where required and/or science industry related careers. 	
American Institutions (AMIT) Upper Division Elective OR CHM 484: Internship Complete 2 courses: Upper Division Elective Term hours subtotal: Cerm 8 105 - 120 Credit Hours Necessary course signified by 🔗 I CHM OR BCH Upper Division Elective	3 3 6 15 Hours 3	Minimum Grade	 Students should take BCH 361/367 as the major electives to ensure competitiveness in pre-health programs where required and/or science industry related careers. Notes Upper Division CHM or BCH Elective 	

Term hours subtotal: 15

- Total Hours: 120
- Upper Division Hours: 45 minimum
- University Undergraduate Graduation Requirements

Notes:

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.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 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.