

CHEMISTRY CURRICULUM (ACS Certified) 2022
Louisiana Tech University

Name _____

Date _____

CWID - - _____

Email _____@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
CHEM 100	MATH 101	2		R*
101	CHEM 100	2		R*
102	CHEM 101	2		R*
103	CHEM 100, 101o	1		R*
104	CHEM 103	1		R*
205	CHEM 102, 206o	3	F	R*
206	CHEM 102, 205o	1	F	R*
250	CHEM 102	2	F, Sp	R*
251	CHEM 250, 253o	2	W, Su	R*
252	CHEM 251	2	Sp, Su	R*
253	CHEM 102, 251o	1	W, Su	R*
254	CHEM 253, 252o	1	Sp, Su	R*
281	CHEM 102, 104	3	F	R*
282	CHEM 102, 104, 281o	1	F	R*
309	CHEM 252, 254	3	F	R*
311	CHEM 102, 252, MATH 242, PHYS 201	3	F	R*
312	CHEM 311	3	W	R*
313	CHEM 311o	1	F	R*
314	CHEM 311, 312o	1	W	R*
351	CHEM 252, 254	3	F, Sp	R*
390		1	F, Sp	R*
466	CHEM 312	4	Sp	R*
481	CHEM 252, 312, 281	3	Sp	R*
490	Senior or Graduate Standing	1		R*
498A	Consent of Instructor	1		R*
498A	Consent of Instructor	1		R*
498A	Cnsent of Instructor	1		R*
BISC 130		3		
COMM 101	FYE 100o	3		□
ENGL 101		3		
102	ENGL 101	3		
303	ENGL 102	3		
363	ENGL 303	3		
MATH 240	Math ACT ≥ 26 or Math SAT ≥ 590 or placement	3		*
241	MATH 240	3		*
242	MATH 241	3		*
243	MATH 242	3		*
244	MATH 243	3		*
245	MATH 244	3		
PHYS 201	MATH 241	3		
202	MATH 242, PHYS 201	3		
261	MATH 112 or 240	1		
262	PHYS 261	1		
ELECTIVES/GER				
Fine Arts Appr. (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
CHEM 420 or 424 or 450C or 409		3		*
Directed Elective		2		
Directed Elective		3		
History Elective		3		
Social Science		3		
Social Science		3		
Technical Elective		3		
Technical Elective		3		
TOTAL SEMESTER HOURS		120		

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

ADDITIONAL COURSES		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		
6		

GPA	
Rubric GPA	_____
MATH 241-244 GPA	_____

NOTES	
* requires grade of "C" or higher	
o credit or registration in	
R course in rubric	
□ must be completed within first year of enrollment	
1 Directed electives must be selected in consultation with advisor, can be nonSTEM (300 or 400 level).	
2 Petitions must be filed for substitutions.	
3 A student must have a minimum 2.0 GPA on all hours pursued in courses designated: CHEM.	
4 Technical Electives must be selected in consultation with advisor (STEM 300 or 400 level classes.)	

ADDITIONAL COMMENTS	

Advisor _____

CHEMISTRY (ACS Certified)
Louisiana Tech University

FRESHMAN YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
CHEM 100 * General Chemistry	2	CHEM 101 * General Chemistry	2	CHEM 102 * General Chemistry	2
MATH 240 * Precalculus	3	CHEM 103 * General Chemistry Lab	1	CHEM 104 * General Chemistry Lab	1
BISC 130 Biological Principles	3	MATH 241 * Calculus I	3	MATH 242 * Calculus II	3
COMM 101 □ Principles of Communication	3	ENGL 101 Freshman Composition I	3	ENGL 102 Freshman Composition II	3
FYE 100 Freshman Year Experience	1				
	12		9		9

SOPHOMORE YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
CHEM 205 * Analytical Chemistry	3	CHEM 251 * Organic Chemistry	2	CHEM 252 * Organic Chemistry	2
CHEM 206 * Analytical Chemistry Lab	1	CHEM 253 * Organic Chemistry Lab	1	CHEM 254 * Organic Chemistry Lab	1
CHEM 250 * Organic Chemistry	2	MATH 244 * Calculus IV	3	PHYS 202 Physics for Engr & Sci II	3
MATH 243 * Calculus III	3	PHYS 201 Physics for Engr & Sci I	3	PHYS 262 General Physics Lab II	1
Social Science Elective**	3	PHYS 261 General Physics Lab I	1	MATH 245 * Differential Equations	3
	12		10		10

JUNIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
CHEM 309 * Organic Reactions Mechanisms	3	CHEM 312 * Physical Chemistry II	3	CHEM 390 * Chemical Literature	1
CHEM 311 * Physical Chemistry I	3	CHEM 314 * Physical Chemistry II Lab	1	CHEM 466 * Instrumental Analysis	4
CHEM 313 Physical Chemistry I Lab	1	History Elective	3	CHEM 481 * Advanced Inorganic	3
CHEM 281 * Inorganic Chemistry	3	Directed/Technical Elective◊	3	Fine Arts Appreciation	3
CHEM 282 * Inorganic Chemistry Lab	1				
	11		10		11

SENIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
CHEM 351 * Biochemistry	3	CHEM 498A * Undergraduate Research	1	CHEM 490 * Chemistry Seminar	1
CHEM 498A * Undergraduate Research	1	ENGL 363 Technical Presentations	3	CHEM 498A * Undergraduate Research	1
ENGL 303 Technical Writing	3	Directed/Technical Elective◊	3	CHEM 420, 424, 450C*, or 409	3
Directed/Technical Elective◊	3	Directed/Technical Elective◊	2	Social Science Elective**	3
	10		9		8

* Requires grade of "C" or higher.

□ Must be completed within first year of enrollment

Courses in **bold** are *typically* offered only once per year.

◊Directed and Technical Electives chosen by the student in consultation with faculty advisor.

**Social Science electives can be selected from Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology.

ALL COURSES APPLYING TO MINOR MUST HAVE GRADE OF "C" OR BETTER