## **CHEMISTRY (Pre-Med or Pre-Dent)**

Louisiana Tech University

Name			Curriculum as of 2018			of 2018	Date	
CWID		<u></u>					Email	@latech.edu
COUR	SE	PREREQUISITE	SCH	QTR		GRADE		SUBSTITUTIONS
CHEM		MATH 101	2		R*			COURSE SCH GRADE
		CHEM 100	2		R*		1	
		CHEM 101	2		R*		2	
		CHEM 100, 1010	1		R*		3	
		CHEM 1020, 103	1		R*		4	
	205	CHEM 102, 2060	3	F	R*		5	
		CHEM 102, 205o	1	F	R*			
		CHEM 102	2	F, Sp	R*			
		CHEM 250, 253o	2	W, Su	R*			ADDITIONAL COURSES
	252	CHEM 251	2	Sp, Su	R*			COURSE SCH GRADE
	253	CHEM 102, 2510	1	W, Su	R*		1	
	254	CHEM 253, 2520	1	Sp, Su	R*		2	
		CHEM 102, 104	3	F	R*		3	
		CHEM 252, 254	3	F	R*		4	
		CHEM 102, 252, MATH 242, PHYS 209	3	F	R*		5	
		CHEM 311	3	W	R*			
		CHEM 3110	1	F	R*			GPA
		CHEM 311, 3120	1	W	R*		Rubri	c GPA
		CHEM 252, 254	3	F,Sp	R*			H 241-242 GPA
		CHEM 351	3	W W	R*		IVIATI	1 24 1-242 OI A
		CHEM 3510	1	F,Sp	R*			NOTES
		CHEM 353, 3520	1	_ г,зр W	R*		*	requires grade of "C" or higher
	390	OTIEN 300, 3020	· ·		R*			
		OUTM 242	1	F, Sp				credit or registration in
		CHEM 312	4	Sp	R*		R	course in rubric
		Senior or Graduate Standing	1		R*			must be completed within first year of enrollment
		Consent of Instructor	1		R*			<b>5</b>
		Consent of Instructor	1		R*		1	Directed electives must be selected in consultation
		Consent of Instructor	1		R*		<b>⊣</b> II .	with advisor.
BISC	130		3				2	Petitions must be filed for substitutions.
	131		1				3	A student must have a minimum 2.0 GPA
		BISC 130	3					on all hours pursued in courses designated:
		BISC 1310	1					CHEM.
		BISC 130, 131, CHEM 100, 101	4				4	ALL COURSES APPLYING TO MINOR MUST
		BISC 132, 133	3					HAVE GRADE OF "C" OR BETTER.
		BISC 132, 133	3	W,Sp/W				
	or 422	BISC 310						
COMM	101		3					
ENGL	101		3					ADDITIONAL COMMENTS
		ENGL 101	3					
		ENGL 102	3					
MATH		Math ACT ≥ 26 or Math SAT ≥ 590 or placement	3		*			
		MATH 240	3		*			
	242	MATH 241	3		*			
STAT		Math 100 B & C, or Math 101, or equivalent	3					
PHYS	209	MATH 112 or 240	3					
	210	PHYS 209	3					
		MATH 112 or 240	1		Ì			
		PHYS 261	1					
<b>ELECTIV</b>								
		ART 290, KINE 280, MUGN 290, or THTR 290)	3					
		opics (409,420,424,450C, or 481)	3		*			
Directed F	-lectiv	3	3					
History FI	ective		3			<del>         </del>		
Science F	lective		1			<del>                                     </del>		
Social Sci	ence		3			<del>         </del>		
Social Sci	ence		3				Advis	or:
		TER HOURS	120					-

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	FRESHMAN YEAR											
Fall Quarter			Hr	Winter Quarter			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		
BISC	131	Biological Principles Lab	1	COMM 101	□ Principles of Communication	3	BISC	132	Biological Diversity	3		
FYE	100	Freshman Year Experience	1				BISC	133	Biological Diversity Lab	1		
			10			9				10		

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	BISC	260	Microbiology	4	BISC 310 Genetics	3		
STAT	200	Basic Statistics	3	ENGL	102	Freshman Composition II	3	History Elective	3		
ENGL	101	Freshman Composition I	3								
			12				10		9		

JUNIOR YEAR											
Fall Quarter			Hr	Winter Quarter			Hr	Spring Quarter			Hr
CHEM	281	* Inorganic Chemistry	3	CHEM	352 *	Biochemistry	3	CHEM	390 *	Chemical Literature	1
CHEM	309	* Organic Reaction Mechanisms	3	CHEM	354 *	Biochemistry Lab	1	CHEM	466 *	Instrumentation	4
CHEM	351	* Biochemistry	3	BISC	315 or	422 Cell or Molecular Biology	3	PHYS	210	General Physics II	3
CHEM	353	* Biochemistry Lab	1	PHYS	209	General Physics I	3	PHYS	262	General Physics Lab II	1
				PHYS	261	General Physics Lab I	1	Social	Science	**	3
			10				11				12
								1			

SENIOR YEAR											
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr						
CHEM 311 * Physical Chemistry I	3	CHEM 312 * Physical Chemistry II	3	CHEM 490 * Chemistry Seminar	1						
CHEM 313 * Physical Chemistry I Lab	1	CHEM 314 * Physical Chemistry Lab II	1	CHEM 498A * Undergraduate Research	1						
CHEM 498A * Undergraduate Research	1	CHEM 498A * Undergraduate Research	1	CHEM Special Topics (409,420,424,450C, or 481)	) 3						
Fine Arts Appreciation	3	ENGL 303 Technical Writing	3	Social Science**	3						
Science Elective◊		Directed Elective◊	3		8						
	9		11								

<sup>\*</sup> Requires grade of "C" or higher

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

♦Directed Electives and Science Elective chosen by the student in consultation with faculty advisor.

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

 $<sup>\</sup>hfill\square$  Must be completed within first year of enrollment

<sup>\*\*</sup>Social Science Electives can be selected from Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology