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

Louisiana Tech University

Name				Curri	culum	as of 2016	Date		_			
CWID		<u></u>					Emai	I	_@latecl	n.edu		
COUF	RSE	PREREQUISITE	SCH	QTR		GRADE		SUBSTITUT	IONS			
CHEM		MATH 101	2		*			COURSE	SCH	GR	ADE	
	101	CHEM 100	2		*		1					
	102	CHEM 101	2		*		2					
	103	CHEM 100, 101o	1		*		3					
		CHEM 103	1		*		-11 4					
		CHEM 102, 104	4	F	*		j					
		CHEM 102	2	F, Sp	*		⊢ٺ					_
		CHEM 250, 253°	2	W	*			ADDITIONAL C	OURSES	3		
		CHEM 251	2	Sp	*			COURSE	SCH		ADE	
		CHEM 102, 2510	1	W	*		-	COUNSE	3011	O.C.	ADL	_
		CHEM 2520, 253	1	Sp	*		$ \frac{1}{2}$		+ +			-
		CHEM 102, 104		W Sp	*				-	_		_
			3	VV	*		$ \frac{3}{4}$	-	-			-
		CHEM 252, 254	3		*				-	_		_
		CHEM 102, 252, MATH 242, PHYS 201	3	F	*							_
		CHEM 311	3	W								_
		CHEM 3110	1	F, W	*			GPA				
		CHEM 311, 312o	1	W	*			c GPA				
		CHEM 252, 254	3	F	*		MAT	H 241-244 GPA				
		CHEM 351	3	W	*							
	353	CHEM 3510	1	F	*			NOTES	3			
	354	CHEM 3520, 353	1	W	*		*	requires grade of "C" or high	gher			
	390	consent of instructor	1	Sp	*			credit or registration in				
	466	CHEM 312	4	Sp	*		R	course in rubric				
		senior or graduate standing	1	W, Sp	*			must be completed within f	irst vear	of enrol	lment	
		consent of instructor	1	, -  -	*			'	,			
		consent of instructor	1		*		$\exists 1$	Directed electives must be	selected	l in cons	ultation	
		consent of instructor	1		*		- II '	with advisor.	00100100	1111 00110	ananon	
BISC	130	CONDUIT OF MICHAELOF	3				- $ $ 2	Petitions must be filed for s	enhetituti	one		
ыос		BISC 130o	1					A student must have a min				
		BISC 130	3				-   °	on all hours pursued in cou				
		BISC 131	1					CHEM.	ii ses ues	signated		
		BISC 131, CHEM 100, 101					$\dashv$ I $_{\star}$					
	200	BISC 132, 133	4				_   4	All students must complete				
0.45			3	144.0 044			_	Education Requirement (IE			eptable:	
		315: BISC 132, 133; 422: BISC 310	3	W,Sp/W				HIST 102, GEOG 205, and	GEOG	210.		_
COMM			3					ADDITIONAL OC		•		
ENGL	101		3					ADDITIONAL CO	MMENI	5		
		ENGL 101	3				⊣⊢					_
		ENGL 102	3				4					_
MATH		Math ACT ≥ 26 or Math SAT ≥ 590 or placement	3		*		-					
		MATH 240	3		*		_					
		MATH 241	3		*							
		MATH 242	3		*		_					
PHYS		MATH 112	3									
	210	PHYS 209	3									
	261	MATH112	1									
	262	PHYS 261	1									
ELECTIV												_
Art (ART	290. K	INE 280, MUGN 290, or THTR 290)	3				$\neg$					_
CHFM 42	20 or 42	24 or 450C	3		*	<del>                                     </del>						_
Directed I	Flective	9	3				<b>⊣</b>					_
History			3					IER requirement met				
Science [	Elective	2	1			++++	-  "	in troquiroment met				
Social So	ianaa	3	3			<del>                                     </del>						
Social Sc	iones		3				_					
Social Sc	ience	TER HOURS	ა 120									

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

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	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				
BISC	131	Biological Principles Lab	1	ENGL 101 Freshman Composition I	3	ENGL 102 Freshman Composition II	3				
FYE	100	First-Year Experience	1	COMM 101   Principles of Comm Studies	3	Social Science	3				
			10		12		12				
				1							

SOPHOMORE YEAR										
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr					
CHEM 205 * Analytical Chemistry	4	CHEM 251 * Organic Chemistry	2	CHEM 252 * Organic Chemistry	2					
CHEM 250 * Organic Chemistry	2	CHEM 253 * Organic Chemistry Lab	1	CHEM 254 * Organic Chemistry Lab	1					
MATH 243 * Calculus III	3	CHEM 281 * Inorganic Chemistry	3	PHYS 210 General Physics II	3					
Social Science	3	PHYS 209 General Physics I	3	PHYS 262 General Physics Lab II	1					
		PHYS 261 General Physics Lab I	1	Fine Arts Appr.	3					
	12		10		10					
				1						

	JUNIOR YEAR												
Fall Quarter			Hr			Winter Qua	rter	Hr			Spring Quarter	Hr	
CHEM	311	*	Physical Chemistry I	3	CHEM	312	* Physical Cher	nistry II	3	CHEM	390 *	Chemical Literature	1
CHEM	313	*	Physical Chemistry I Lab	1	CHEM	314	* Physical Cher	nistry II Lab	1	CHEM	309 *	Organic Reaction Mechanisms	3
CHEM	351	*	Biochemistry	3	BISC	132	Biological Div	ersity	3	BISC	260	Microbiology	4
CHEM	353	*	Biochemistry Lab	1	BISC	133	Biological Div	ersity Lab	1	ENGL	303	Technical Writing	3
					BISC	310	Genetics		3				
				8					11				11

SENIOR YEAR										
Fall Quarter	Hr	Winter Quarter		Spring Quarter						
CHEM 498A * Undergraduate Research	1	CHEM 352 * Biochemistry	3	CHEM 466 * Instrumentation	4					
CHEM 420, 424, or 450C*	3	CHEM 354 * Biochemistry Lab	1	CHEM 490 * Chemistry Seminar	1					
HIST	3	CHEM 489A * Undergraduate Research	1	CHEM 498A * Undergraduate Research	1					
Science Elective	1	BISC 315 or 422 Cell or Molecular Biology	3	Directed Elective	3					
	8		8		9					

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

 $\hfill \square$  must be completed within first year of enrollment

Courses in  ${\bf bold}$  are  ${\it typically}$  offered only once per year.

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

Humanities electives can be selected from Classical Studies, Communications, Foreign Languages, History, Literature, Philosophy, Religious Studies, Interdisciplinary

All students must complete an International Education Requirment prior to graduation. A list of courses can be found in the university catalog. Courses that do not have any pre-requisite requirement are: GEOG 205, GEOG 210, HIST 102.