

CHEMISTRY (ACS Certified)

Louisiana Tech University

Curriculum as of 2018

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, 101○	1		R*
104	CHEM 103	1		R*
205	CHEM 102, 104	3	F	R*
206	CHEM 102, 205○	1	F	R*
250	CHEM 102	2	F, Sp	R*
251	CHEM 250, 253○	2	W	R*
252	CHEM 251	2	Sp	R*
253	CHEM 102, 251○	1	W	R*
254	CHEM 253, 252○	1	Sp	R*
281	CHEM 102, 104	3	W	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 311○	1	F	R*
314	CHEM 311, 312○	1	W	R*
351	CHEM 252, 254	3	F,Sp	R*
390		1	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	consent of instructor	1		R*
BISC 130		3		
COMM 101		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 241	1		
262	PHYS 261	1		
ELECTIVES				
Fine Arts Appr. (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
CHEM 420 or 424 or 450C or 409		3		*
Directed Elective		3		
Directed Elective		3		
History		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		

GPA	
Rubric GPA	_____
MATH 241-244 GPA	_____

NOTES	
* requires grade of "C" or higher	
○ 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.	
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.	

ADDITIONAL COMMENTS	

Advisor _____

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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
COMM 101	<input type="checkbox"/> Principles of Communication	3	ENGL 101	Freshman Composition I	3	ENGL 102	Freshman Composition II	3
FYE 100	Freshman Year Experience	1				Social Science Elective**		3
		12			9			12

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 206	* Analytical Chemistry Lab	1	CHEM 253	* Organic Chemistry Lab	1	CHEM 254	* Organic Chemistry Lab	1
CHEM 250	* Organic Chemistry	2	CHEM 281	* Inorganic Chemistry	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
			PHYS 261	General Physics Lab I	1	Fine Arts Appreciation		3
		10			10			10

JUNIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CHEM 311	* Physical Chemistry I	3	CHEM 312	* Physical Chemistry II	3	CHEM 390	* Chemical Literature	1
CHEM 313	Physical Chemistry I Lab	1	CHEM 314	* Physical Chemistry II Lab	1	CHEM 351	* Biochemistry	3
CHEM 309	* Organic Reactions Mechanisms	3	MATH 245	* Differential Equations	3	ENGL 303	Technical Writing	3
MATH 244	* Calculus IV	3	Directed Elective		3	Directed Elective \diamond		3
		10			10			10

SENIOR YEAR								
Fall Quarter		Hr	Winter Quarter		Hr	Spring Quarter		Hr
CHEM 498A	* Undergraduate Research	1	CHEM 498	* Undergraduate Research	1	CHEM 466	* Instrumentation	4
CHEM 420, 424, 450C*, or 409		3	HIST		3	CHEM 481	* Advanced Inorganic	3
Technical Elective		3	Technical Elective		3	CHEM 490	* Chemistry Seminar	1
ENGL 363	Technical Presentations	3	Social Science Elective**		3	CHEM 489A	* Undergraduate Research	1
		10			10			9

* Requires grade of "C" or higher.

Must be completed within first year of enrollment

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

\diamond Directed Electives chosen by the student in consultation with faculty advisor and approved by the Chemistry Program Chair.

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