

CHEMISTRY (Pre-Med/Pre-Dentistry)

LOUISIANA TECH UNIVERSITY

Revised Spring 2011

Name _____

Date _____

Student ID _____

Email _____

COURSE	PREREQUISITE	SH	SCHED	GRADE
CHEM 100	MATH 101	2	_____	* _____
101	CHEM 100	2	_____	* _____
102	CHEM 101	2	_____	* _____
103	CHEM 101 (Co-req)	1	_____	* _____
104	CHEM 103	1	_____	* _____
205	CHEM 102	4	F _____	* _____
250	CHEM 102	2	F,Sp _____	* _____
251	CHEM 250, CHEM 253 (Co-req)	2	W _____	* _____
252	CHEM 251, CHEM 254 (Co-req)	2	Sp _____	* _____
253	CHEM 102, CHEM 251 (Co-req)	1	W _____	* _____
254	CHEM 253, CHEM 252 (Co-req)	1	Sp _____	* _____
281	CHEM 102, 104	3	W _____	* _____
311	CHEM 102, 252, MATH 242, PHYS 209	3	F _____	* _____
312	CHEM 311	3	W _____	* _____
313	CHEM 311 (Co-req)	1	F,W _____	* _____
314	CHEM 311, CHEM 312 (Co-req)	1	W _____	* _____
351	CHEM 252, 254	3	F _____	* _____
352	CHEM 351	3	W _____	* _____
353	CHEM 351 (Co-req)	1	F _____	* _____
354	CHEM 351, 353	1	W _____	* _____
390	Four quarters before graduation	1	Sp _____	* _____
466	CHEM 312	4	Sp _____	* _____
490	Senior standing	1	W,Sp _____	* _____
498A	Consent of Instructor	1	_____	* _____
498A	Consent of Instructor	1	_____	* _____
498A	Consent of Instructor	1	_____	* _____
BISC				
130	BISC 131 (Co-req)	3	_____	_____
131	BISC 130 (Co-req)	1	_____	_____
132	BISC 130, 133 (Co-req)	3	_____	_____
133	BISC 132 (Co-req)	1	_____	_____
260	CHEM 100, 101, BISC 130, 131	4	_____	_____
310	BISC 132, 133	3	_____	_____
315 or 422	BISC 132, 133 BISC 310	3	W,Sp W _____	_____
MATH				
240	MATH 101 (or by placement)	3	_____	* _____
241	MATH 240	3	_____	* _____
242	MATH 241	3	_____	* _____
243	MATH 242	3	_____	_____
PHYS				
209	MATH 112 (or by placement)	3	_____	_____
210	PHYS 209	3	_____	_____
261	MATH 112 (or by placement)	1	_____	_____
262	PHYS 261	1	_____	_____
ENGL				
101	_____	3	_____	_____
102	ENGL 101	3	_____	_____
210 or 211 or 212	ENGL 102	3	_____	_____
ELECTIVES				
ART (ART 290, MUGN 290, SPTH 290, or KINE 280)	_____	3	_____	_____
HIST ____ (See note 5)	_____	3	_____	_____
SPCH 110 or 377	_____	3	_____	_____
Humanities Elective (See note 2)	_____	3	_____	_____
Social Science (See note 1 and 5)	_____	3	_____	_____
Social Science	_____	3	_____	_____
Social Science	_____	3	_____	_____
Science Elective (See note 2)	_____	1	_____	_____
Directed Elective (See note 2)	_____	3	_____	_____
TOTAL SEMESTER HOURS		120		

SUBSTITUTIONS	APPR	SH	GRADE
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____

ADDITIONAL COURSES	SH	GRADE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

NOTES
<p>* Requires grade of "C" or better.</p> <p>1 Social Science electives must include at least two disciplines selected from Economics, Geography, Political Science, Psychology, or Sociology.</p> <p>2 All electives must be selected in consultation with student's advisor.</p> <p>3 Substitutions must be initiated by Program Chair. Put substitution number in the "grade" blank of the course being replaced.</p> <p>4 A student must have a 2.0 grade point average on all hours pursued in courses designated as CHEM.</p> <p>5 All students must complete an International Education Requirement. HIST 102, GEOG 205, and GEOG 210 are acceptable for this requirement.</p> <p>Comments: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

Advisor's Name: _____

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FRESHMAN YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
CHEM 100*	General Chemistry	2	CHEM 101*	General Chemistry	2	CHEM 102*	General Chemistry	2			
MATH 240	Math for Engr & Science	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			
UNIV 100	University Seminar	1	Social Science ***		3	Social Science ***		3			
10			12			12					

SOPHOMORE YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
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			
			PHYS 209	General Physics I	3	PHYS 262	General Physics Lab II	1			
			PHYS 261	General Physics Lab I	1	ART†	Fine Arts Appreciation	3			
9			10			10					

JUNIOR YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
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	BISC 260	Microbiology	4			
CHEM 351*	Biochemistry	3	BISC 132	Biological Diversity	3	Humanities Elective		3			
CHEM 353*	Biochemistry Lab	1	BISC 133	Biological Diversity Lab	1	ENGL 210, 211, or 212	Literature	3			
Social Science ***		3	BISC 310	Genetics	3						
11			11			11					

SENIOR YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
CHEM 498A*	Undergrad Research	1	CHEM 352*	Biochemistry	3	CHEM 466*	Instrumentation	4			
SPCH 110 or 377	Principles of Speech	3	CHEM 354*	Biochemistry Lab	1	CHEM 490*	Chemistry Seminar	1			
HIST ***		3	CHEM 498A*	Undergrad Research	1	CHEM 498A*	Undergrad Research	1			
Science Elective**		1	BISC 315 or 422	Cell or Molecular Biology	3	Directed Elective**		3			
8			8			9					

* Grade of C or higher required before taking a course for which this one is a prerequisite.

** Directed electives are chosen in consultation with advisor and approved by the Program Chair.

*** HIST 102, GEOG 205, or GEOG 210 count as the International Education Requirement (IER).

† ART 290, SPTH 290, MUGN 290, or KINE 280 counts as the Fine Arts Requirement.

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