

CHEMISTRY (Pre-Med or Pre-Dent)

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
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

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
	3	PHYS 261 General Physics Lab I	1	Fine Arts Appr.	3
	12		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 309 * Organic Reaction Mechanisms	3
CHEM 351 * Biochemistry	3	BISC 132 Biological Diversity	3	BISC 260 Microbiology	4
CHEM 353 * Biochemistry Lab	1	BISC 133 Biological Diversity Lab	1	ENGL 303 Technical Writing	3
	1	BISC 310 Genetics	3		3
	8		11		11

SENIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
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

* requires grade of "C" or higher.

□ must be completed within first year of enrollment

Courses in **bold** are *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 Requirement 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.