

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 | Freshman Year Experience | 1 | COMM 101 | <input type="checkbox"/> Principles of Communication | 3 | Social Science Elective** | | 3 |
| | | 10 | | | 12 | | | 12 |

| 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 | CHEM 281 | * Inorganic Chemistry | 3 | PHYS 210 | General Physics II | 3 |
| STAT 200 | Basic Statistics | 3 | PHYS 209 | General Physics I | 3 | PHYS 262 | General Physics Lab II | 1 |
| Social Science Elective** | | 3 | PHYS 261 | General Physics Lab I | 1 | Fine Arts Appreciation | | 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 | BISC 310 | Genetics | 3 |
| CHEM 351 | * Biochemistry | 3 | BISC 132 | Biological Diversity | 3 | ENGL 303 | Technical Writing | 3 |
| CHEM 353 | * Biochemistry Lab | 1 | BISC 133 | Biological Diversity Lab | 1 | BISC 260 | Microbiology | 4 |
| CHEM 309 | * Organic Reaction Mechanisms | 3 | | | | | | |
| | | 11 | | | 8 | | | 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, 450C, or 409* | | 3 | CHEM 354 | * Biochemistry Lab | 1 | CHEM 490 | * Chemistry Seminar | 1 |
| History | | 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.

◇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.