

CHEMISTRY (Pre-Med or Pre-Dent)

Louisiana Tech University
Curriculum as of 2018 to Current

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, 101o | 1 | | R* | | |
| | 104 | CHEM 102o, 103 | 1 | | R* | | |
| | 205 | CHEM 102, 206o | 3 | F | R* | | |
| | 206 | CHEM 102, 205o | 1 | F | R* | | |
| | 250 | CHEM 102 | 2 | F, Sp | R* | | |
| | 251 | CHEM 250, 253o | 2 | W, Su | R* | | |
| | 252 | CHEM 251 | 2 | Sp, Su | R* | | |
| | 253 | CHEM 102, 251o | 1 | W, Su | R* | | |
| | 254 | CHEM 253, 252o | 1 | Sp, Su | R* | | |
| | 281 | CHEM 102, 104 | 3 | F | R* | | |
| | 309 | CHEM 252, 254 | 3 | F | R* | | |
| | 311 | CHEM 102, 252, MATH 242, PHYS 209 | 3 | F | R* | | |
| | 312 | CHEM 311 | 3 | W | R* | | |
| | 313 | CHEM 311o | 1 | F | R* | | |
| | 314 | CHEM 311, 312o | 1 | W | R* | | |
| | 351 | CHEM 252, 254 | 3 | F,Sp | R* | | |
| | 352 | CHEM 351 | 3 | W | R* | | |
| | 353 | CHEM 351o | 1 | F,Sp | R* | | |
| | 354 | CHEM 353, 352o | 1 | W | R* | | |
| | 390 | | 1 | F, Sp | R* | | |
| | 466 | CHEM 312 | 4 | 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 | | | | |
| | 131 | | 1 | | | | |
| | 132 | BISC 130 | 3 | | | | |
| | 133 | BISC 131o | 1 | | | | |
| | 260 | BISC 130, 131, CHEM 100, 101 | 4 | | | | |
| | 310 | BISC 132, 133 | 3 | | | | |
| | 315 | BISC 132, 133 | 3 | W,Sp/W | | | |
| or 422 | BISC 310 | | | | | | |
| COMM | 101 | | 3 | | <input type="checkbox"/> | | |
| ENGL | 101 | | 3 | | | | |
| | 102 | ENGL 101 | 3 | | | | |
| | 303 | ENGL 102 | 3 | | | | |
| MATH | 240 | Math ACT ≥ 26 or Math SAT ≥ 590 or placement | 3 | | * | | |
| | 241 | MATH 240 | 3 | | * | | |
| | 242 | MATH 241 | 3 | | * | | |
| STAT | 200 | Math 100 B & C, or Math 101, or equivalent | 3 | | | | |
| PHYS | 209 | MATH 112 or 240 | 3 | | | | |
| | 210 | PHYS 209 | 3 | | | | |
| | 261 | MATH 112 or 240 | 1 | | | | |
| | 262 | PHYS 261 | 1 | | | | |
| ELECTIVES | | | | | | | |
| Fine Arts Appr. (ART 290, KINE 280, MUGN 290, or THTR 290) | | | 3 | | | | |
| CHEM Special Topics (409,420,424,450C, or 481) | | | 3 | | * | | |
| Directed Elective | | | 3 | | | | |
| History Elective | | | 3 | | | | |
| Science Elective | | | 1 | | | | |
| Social Science | | | 3 | | | | |
| Social Science | | | 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 241-242 GPA | _____ |

| NOTES | |
|---|--|
| * requires grade of "C" or higher | |
| o credit or registration in | |
| R course in rubric | |
| <input type="checkbox"/> 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. | |
| 4 ALL COURSES APPLYING TO MINOR MUST HAVE GRADE OF "C" OR BETTER. | |

| ADDITIONAL COMMENTS |
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Advisor: _____

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 | COMM 101 □ Principles of Communication | 3 | BISC 132 Biological Diversity | 3 |
| FYE 100 Freshman Year Experience | 1 | | | BISC 133 Biological Diversity Lab | 1 |
| | 10 | | 9 | | 10 |

| 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 | BISC 260 Microbiology | 4 | BISC 310 Genetics | 3 |
| STAT 200 Basic Statistics | 3 | ENGL 102 Freshman Composition II | 3 | History Elective | 3 |
| ENGL 101 Freshman Composition I | 3 | | | | |
| | 12 | | 10 | | 9 |

| JUNIOR YEAR | | | | | |
|---|----|---|----|---------------------------------------|----|
| Fall Quarter | Hr | Winter Quarter | Hr | Spring Quarter | Hr |
| CHEM 281 * Inorganic Chemistry | 3 | CHEM 352 * Biochemistry | 3 | CHEM 390 * Chemical Literature | 1 |
| CHEM 309 * Organic Reaction Mechanisms | 3 | CHEM 354 * Biochemistry Lab | 1 | CHEM 466 * Instrumentation | 4 |
| CHEM 351 * Biochemistry | 3 | BISC 315 or 422 Cell or Molecular Biology | 3 | PHYS 210 General Physics II | 3 |
| CHEM 353 * Biochemistry Lab | 1 | PHYS 209 General Physics I | 3 | PHYS 262 General Physics Lab II | 1 |
| | | PHYS 261 General Physics Lab I | 1 | Social Science** | 3 |
| | 10 | | 11 | | 12 |

| SENIOR YEAR | | | | | |
|--|----|--------------------------------------|----|--|----|
| Fall Quarter | Hr | Winter Quarter | Hr | Spring Quarter | Hr |
| CHEM 311 * Physical Chemistry I | 3 | CHEM 312 * Physical Chemistry II | 3 | CHEM 490 * Chemistry Seminar | 1 |
| CHEM 313 * Physical Chemistry I Lab | 1 | CHEM 314 * Physical Chemistry Lab II | 1 | CHEM 498A * Undergraduate Research | 1 |
| CHEM 498A * Undergraduate Research | 1 | CHEM 498A * Undergraduate Research | 1 | CHEM Special Topics (409,420,424,450C, or 481) | 3 |
| Fine Arts Appreciation | 3 | ENGL 303 Technical Writing | 3 | Social Science** | 3 |
| Science Elective◊ | 1 | Directed Elective◊ | 3 | | 8 |
| | 9 | | 11 | | 8 |

* 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 and Science Elective chosen by the student in consultation with faculty advisor.

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

ALL COURSES APPLYING TO MINOR MUST HAVE GRADE OF "C" OR BETTER