

DEPARTMENT OF CHEMISTRY
Chemistry with a Endorsement in Secondary Education 6-12

| Course Number | Title | Semester Hours | | |
|---------------------------------|---|----------------|-----------|-------------|
| | | 1st Sem | 2nd Sem | Total Hours |
| FRESHMAN YEAR | | | | |
| DST 100 | Analytical Reading, Writing and Reasoning I | 2** | - | 2** |
| IDST 101 | Analytical Reading, Writing and Reasoning II | - | 2** | 2 |
| FRST 101 | Freshman Studies | 2 | - | 2 |
| ENGL 110 | Composition I | 3 | - | 3 |
| ENGL 111 | Composition II | - | 3 | 3 |
| MATH 260 | Calculus I | 4 | - | 4 |
| MATH 261 | Calculus II | - | 4 | 4 |
| CHEM 161 | Chemistry I | 3 | - | 3 |
| CHEM 163 | Chemistry I Laboratory | 2 | - | 2 |
| CHEM 162 | Chemistry II | - | 3 | 3 |
| CHEM 164 | Chemistry II Laboratory | - | 2 | 2 |
| HISTORY | Elective | - | 3 | 3 |
| HPER 170 | Health and Wellness | - | 2 | 2 |
| Totals | | 16 | 19 | 35 |
| SOPHOMORE YEAR | | | | |
| EDUC 201 | Introduction to Teaching I | 2 | - | 2 |
| EDUC 202 | Introduction to Teaching II | - | 2 | 2 |
| IDST 200 | Digital Media in Teacher Education | 3 | - | 3 |
| ENGL 202 | African American Lit | - | 3 | 3 |
| CHEM 305 | Organic Chemistry I | 3 | - | 3 |
| CHEM 307 | Organic Chemistry I Laboratory | 1 | - | 1 |
| CHEM 301 | Analytical Chemistry I | 2 | - | 2 |
| CHEM 303 | Analytical Chemistry I Lab | 1 | - | 1 |
| PHYS 112 | General Physics I | 3 | - | 3 |
| PHYS 113 | General Physics I Laboratory | 1 | - | 1 |
| CHEM 306 | Organic Chemistry II | - | 3 | 3 |
| CHEM 308 | Organic Chemistry II Laboratory | - | 1 | 1 |
| BIOL 120 | Principles of Modern Biology and Lab | - | 4 | 4 |
| MATH ___ | Restricted Math Elective | - | 3 | 3 |
| Totals | | 16 | 16 | 32 |
| JUNIOR YEAR | | | | |
| EDUC 315 | Data Driven Instructional Design | 3 | - | 3 |
| PSYC 212 | Human Growth and Development | - | 3 | 3 |
| SPED 403 | Classroom Management in Education Settings (FE) | - | 3 | 3 |
| Lang Elective | 100 or above | 3 | 3 | 6 |
| CHEM 401 | Physical Chemistry I | 3 | - | 3 |
| CHEM 411 | Analytical Chemistry II | - | 3 | 3 |
| CHEM 320 | Organic Chemistry III | 2 | - | 2 |
| GEES 181 | Earth Science and Lab | 4 | - | 4 |
| ----- | Social Science Elective | 3 | - | 3 |
| Totals | | 18 | 12 | 30 |
| SENIOR YEAR | | | | |
| EDUC 424 | Critical Issues in Education | 2 | - | 2 |
| CHEM 422 | Biochemistry and Lab | 4 | - | 4 |
| CHEM 420 | Seminar in Chemistry | 1 | - | 1 |
| CHEM 414 | Inorganic Chemistry | 3 | - | 3 |
| CHEM 415 | Inorganic Chemistry Lab | 1 | - | 1 |
| CHED 473 | Teaching Science | 3 | - | 3 |
| EDUC 427 | Reading in the Subject Area | 3 | - | 3 |
| CHED 402 | Student Teaching in Chemistry | - | 3 | 3 |
| EDUC 401 | Student Teaching Seminar | - | 3 | 3 |
| EDUC 402 | Student Teaching | - | 9 | 9 |
| Totals | | 17 | 15 | 32 |
| Total Semester Hours 129 | | | | |