## Required Curriculum <br> Chemistry Major with the Pre-Professional Option

This option is designed for students interested in medical, dental, optometry, or veterinary professional school, but who wish to have an alternative career path to careers in industry, law, government, journalism, business, etc., that would benefit from a strong background in the physical sciences and mathematics. This option also provides excellent preparation for graduate study in biochemistry, biotechnology, and molecular biology.

| B.S. in Chemistry, P | -Professional Option |  |  |
| :---: | :---: | :---: | :---: |
| First Year |  | F | S |
| Biol. 150 | General Biology | 3 |  |
| Biol. 150L | General Biology Laboratory | 1 |  |
| Chem 150, 151 | Principles of Chemistry I, II | 3 | 3 |
| Chem 160, 161 | Principles of Chemistry I, II Labs | 1 | 1 |
| Engl. 120 | College Composition | 3 |  |
| Comm. 110 | Fundamentals of Public Speaking |  | 3 |
| Math 165, 166 | Calculus I, II | 4 | 4 |
| Gen. Ed. | Wellness, General Ed. Electives |  | 5 |
|  |  | 15 | 16 |
| Second Year |  |  |  |
| Chem 341, 342 | Organic Chemistry I, II | 3 | 3 |
| Chem 353, 354 | Organic Chemistry I, II Majors Labs | 1 | 2 |
| Math 128 | Introduction to Linear Algebra | 1 |  |
| Math 259** | Calculus III | 3 |  |
| Matth 266 or | Intro. To Differential Eq., or |  | 3 |
| Stat 330 | Intro. Statistics |  |  |
| Phys 251, 252 | University Physics I, II | 4 | 4 |
| Phys 251L, 252L | University Physics Laboratory I, II | 1 | 1 |
| Gen. Ed., Electives* | General Ed. Elective | 3 | 3 |
|  |  | 16 | 16 |
| Third Year |  |  |  |
| Chem 431, 431L | Analytical Chemistry I and Laboratory | 5 |  |
| Chem 364, 365 | Physical Chemistry I, II | 3 | 3 |
| Chem 380 | Chemistry Junior Seminar |  | 1 |
| Micr. 350, 350L | Microbiology I and Laboratory | 4 |  |
| Engl. 324 | Writing in the Sciences |  | 3 |
| Gen. Ed. Electives* | General Education Electives | 3 | 6 |
|  |  | 15 | 13 |
| Fourth Year |  |  |  |
| Chem 425 | Inorganic Chemistry | 3 |  |
| Bioc 460, 460L | Found. of Biochem. I \& Lab | 4 |  |
| Biol. 220, 221 | Human Anatomy and Physiology | 3 | 3 |
| Biol. 220L, 221L | Human Anatomy Laboratory | 1 | 1 |
| Chem 491 | Chemistry Senior Seminar |  | 2 |
| Electives | Electives | 3 | 3 |
| Gen. Ed. Electives* | General Education and other Electives |  | 7 |
|  |  | 14 | 16 |
| SAMPLE CURRIC | LUM TOTAL |  |  |

*Electives must include 18 credits in humanities and social sciences; six of these must be in humanities/fine arts, and six in social sciences. In addition, three credits must have a global perspective and three must be in the cultural diversity category.
**MATH 265 may be substituted for MATH 259.

