

**UNCP Department of Chemistry and Physics**  
**Requirements for a Bachelor of Science in Chemistry – Pre-Health Professions Track**  
**(122 total credit hours)**

|  |   |   |                     |  |                      |                                    |                     |
|--|---|---|---------------------|--|----------------------|------------------------------------|---------------------|
| <b>Freshman Seminar (1 credit hour)</b>                          |   |   |                     |  |                      |                                    |                     |
| <b>General Education (44 credit hours)*</b>                      |   |   |                     |  |                      |                                    |                     |
| <b>CORE SCIENCE COURSES – 54(52) total credit hours</b>          |   |   |                     |  |                      |                                    |                     |
| <b>Chemistry - 29 credit hours</b>                               |   |   |                     |  |                      |                                    |                     |
|  | <b>Course Number</b>                      | <b>Course Title</b>   | <b>Credit Hours</b> |  | <b>Course Number</b> | <b>Course Title</b>                | <b>Credit Hours</b> |
|  | CHM 1100                                  | General Chemistry I Lab   | 1                   |  | CHM 2500             | Organic Chemistry I                | 4                   |
|  | CHM 1110                                  | General Chemistry II Lab  | 1                   |  | CHM 2510             | Organic Chemistry II               | 4                   |
|  | CHM 1300                                  | General Chemistry I   | 3                   |  | CHM 2980             | Scientific Literature              | 1                   |
|  | CHM 1310                                  | General Chemistry II  | 3                   |  | CHM 4100             | Physical Chemistry                 | 4                   |
|  | CHM 2260                                  | Inorganic Chemistry   | 4                   |  |                      |                                    |                     |
|  | CHM 2270                                  | Analytical Chemistry  | 4                   |  |                      |                                    |                     |
| <b>Mathematics – 14(12) credit hours</b>                         |   |   |                     | <b>Physics* - 8 credit hours</b>                           |                      |                                    |                     |
|  | <b>Course Number</b>                      | <b>Course Title</b>   | <b>Credit Hours</b> |  | <b>Course Number</b> | <b>Course Title</b>                | <b>Credit Hours</b> |
|  | MAT 1070 and<br>MAT 1080 (or<br>MAT 1090) | College Algebra and Plane<br>Trigonometry<br><b>OR</b><br>Precalculus | 6<br><b>OR</b><br>4 |  | PHY 1500             | College Physics I                  | 3                   |
|  | MAT 2210                                  | Calculus I  | 4                   |  | PHY 1510             | College Physics II                 | 3                   |
|  | MAT 2220                                  | Calculus II   | 4                   |  | PHY 1560             | College Physics I Lab              | 1                   |
| <b>Biology – 3 credit hours</b>                                  |   |   |                     |  | PHY 1570             | College Physics II Lab             | 1                   |
|  | <b>Course Number</b>                      | <b>Course Title</b>   | <b>Credit Hours</b> | <b>Physics* - <u>OR</u> PHY 2000, 2010, 2060, and 2070</b> |                      |                                    |                     |
|  | BIO 1000                                  | Biology   | 3                   |  |                      |                                    |                     |
| <b>PRE-HEALTH PROFESSIONS TRACK (CMED) – 35(37) credit hours</b> |   |   |                     |  |                      |                                    |                     |
| <b>Advanced Chemistry – 4 credit hours</b>                       |   |   |                     | <b>Biology Courses – 25 credit hours</b>                   |                      |                                    |                     |
|  | <b>Course Number</b>                      | <b>Course Title</b>   | <b>Credit Hours</b> |  | <b>Course Number</b> | <b>Course Title</b>                | <b>Credit Hours</b> |
|  | CHM 3110                                  | Biochemistry I  | 3                   |  | BIOL 1000            | Biology Lab                        | 1                   |
|  | CHM 3120                                  | Biochemistry I Lab  | 1                   |  | BIO 1020             | General Zoology                    | 4                   |
|  |   |   |                     |  | BIO 2110             | Human Anatomy and<br>Physiology I  | 4                   |
|  |   |   |                     |  | BIO 2120             | Human Anatomy and<br>Physiology II | 4                   |
| <b>Other Courses – 6 (8)</b>                                     |   |   |                     |  | BIO 3150             | Microbiology                       | 4                   |
|  | Electives (any area) – 6 (8)              |   |                     |  | BIO 3180             | Principles of Genetics             | 4                   |
|  |   |   |                     |  | BIO 3710             | Cell Biology                       | 4                   |

\* Twelve hours of General Education courses are listed separately above as specific core requirements.