**Chemistry Pre-Pharmacy 2019-2020 Degree Pathway**

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| **Freshman Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | UNV 1000 | Freshman Seminar | 1 |  | ENG 1060 | Composition II | 3 |
|  | ENG 1050 | Composition 1 | 3 |  | MAT 1080 | Plane Trig | 3 |
|  | MAT 1070 | College Algebra or Pre-calculus | 3 |  | General Education | Social Science | 3 |
|  | CHM 1300 | General Chemistry I | 3 |  | BIO 1000 | Principles of Biology | 3 |
|  | CHM 1100 | General Chemistry Laboratory I | 1 |  | BIOL 1000 | Laboratory Investigation and Experiences in General Biology | 1 |
|  | PSY 1010 | Introduction to Psychology | 3 |  | General Education | Philosophy or Religion | 3 |
| **Total Credits** | | | 15 |  | **Total Credits** | | 16 |

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| **Sophomore Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | BIO 2110 or BIO 2120 | Human Anatomy and Physiology I or Human Anatomy and Physiology II | 4 |  | General Education | Social Science | 3 |
|  | CHEM 1310 | General Chemistry II | 3 |  | General Education | Fine Art | 3 |
|  | CHEM 1110 | General Chemistry Laboratory II | 1 |  | MAT 2210 | Calculus I | 4 |
|  | General Education | Literature | 3 |  | CHM 2260 | Inorganic Chemistry | 4 |
|  | PHY 1500 or PHY 2000 | College Physics I or University Physics I | 3 |  | PHY 1510 or PHY 2010 | College Physics II or University Physics II | 3 |
|  | PHY 1560 or PHY 2060 | College Physics I Lab or University Physics I Lab | 1 |  | PHY 1570 OR PHY 2070 | College Physics Lab II or University Physics II lab | 1 |
|  | General Education | Physical Education | 1 |  |  |  |  |
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| **Total Credits** | | | 16 |  | **Total Credits** | | 18 |

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| **Junior Year** | | | | | | | |
| Fall | | | | Spring | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | General Education | Elective | 3 |  | CHM 2510 | Organic Chemistry II | 3 |
|  | General Education | Physical Education | 1 |  | CHM 2530 | Organic Chemistry II Lab | 1 |
|  | MAT 2210 | Calculus II | 4 |  | CHM 3980 | Scientific Literature | 2 |
|  | CHM 2270 | Analytical Chemistry | 4 |  | CHM 4100 | Physical Chemistry | 4 |
|  | CHM 2500 | Organic Chemistry I | 3 |  | CHM 3110 | Biochemistry I | 3 |
|  | CHM 2520 | Organic Chemistry I Lab | 1 |  | CHM 3120 | Biochemistry I Lab | 1 |
|  |  |  |  |  | General Education | History | 3 |
| **Total Credits** | | | 16 | **Total Credits** | | | 17 |

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| **Senior Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | First Year Curriculum in approved Pharm D program |  | 13 |  | First Year Curriculum in approved Pharm D program |  | 13 |
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| **Total Credits** | | | 13 | **Total Credits** | | | 13 |