**BACHELOR of SCIENCE (B.S.) in BIOLOGY (2023-2024)**

**BPPT– Pre-Physical Therapy Emphasis**

**Four-Year Degree Plan**

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| WRITING INTENSIVE PROGRAM: Students must complete a combined total of 9 credit hours of Writing Enriched (WE) and Writing in the Discipline (WD) coursework. One course must be a WD course (of any number of credits) and can be BIO 4700 or any other WD course. BIO 3710 (see page 2) will count as 4 WE hours, so you will need at least 2 more hours of WE or WD coursework, which can come from any discipline. Double majors need only fulfill the Writing Intensive Program requirement once. It is recommended that you “double dip” by taking a Biology elective or General Education Requirement that is also designated as WE. NOTE: Successful completion (grade of “C” or better) of ENG 1050 is a prerequisite for all WE or WD courses.  INDIGENOUS CULTURES AND COMMUNITIES (ICC) – Students entering the university inFall 2023 or later shall complete the ICC requirement for graduation. Students may satisfy this requirement by completing two 3-credit hour ICC-designated courses. Students who transfer over 60 or more hoursshall complete one 3-credit hour ICC course. Designated ICC courses can satisfy other graduation requirements such as General Education and/or Writing Intensive Program requirements (see above); it is possible to “double dip” or even “triple dip” (e.g.,MUS 1210 may satisfy a Fine Arts, WE, and ICC requirement).  **ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED**  \*C or higher is required in BIO 1000 to matriculate to other BIO Courses in the major  \*\*Students should take SOC 1020 or SOC 1050  \*\*\*BIO Electives: Choose any 2 courses from: Animal Physiology (BIO 4610), Neurobiology (BIO 3750), Microbiology (BIO 3150), Molecular Biology (BIO 4130), Immunology (BIO 3810) |

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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 |  | BIO 1020 | General Zoology | 4 |
|  | MAT 1070 | College Algebra | 3 |  | MAT 2100 | Introduction to Statistics | 3 |
|  | BIO 1000\* | Principles of Biology | 3 |  | CHM 1300 | General Chemistry I | 3 |
|  | BIOL 1000 | Laboratory Investigation and Experiences in General Biology | 1 |  | CHM 1100 | General Chemistry Laboratory I | 1 |
|  | PSY 1010 | Introduction to Psychology | 3 |  | General Education | Physical Education | 1 |
| **Total Credits** | | | 14 |  | **Total Credits** | | 15 |

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| **Sophomore Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | MAT 2150 | Calculus with Applications | 4 |  | General Education | History | 3 |
|  | BIO 2110 | Anatomy & Physiology I | 4 |  | General Education | Fine Arts | 3 |
|  | CHM 1310 | General Chemistry II | 3 |  | General Education | Social Science\*\* | 3 |
|  | CHM 1110 | General Chemistry Laboratory II | 1 |  | BIO 2120 | Anatomy & Physiology I | 4 |
|  | General Education | Literature | 3 |  |  |  |  |
| **Total Credits** | | | 16 |  | **Total Credits** | | 13 |

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| **Junior Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | BIO 3180 | Genetics | 4 |  | PHY 1500 | College Physics I | 3 |
|  | General Education | Elective | 3 |  | PHY 1560 | College Physics I Lab | 1 |
|  | Pre-PT elective | PSY Block. Choose one from PSY 2050, 2200, 2250, 3050, 3600, 4010 | 3 |  | BIO Elective\*\*\* |  | 3-4 |
|  | University-wide Elective |  | 3-4 |  | BIO 3040 | Principles of Ecology | 4 |
|  | General Education | Physical Education | 1 |  | University-wide Elective |  | 3-4 |
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| **Total Credits** | | | 13-14 | **Total Credits** | | | 14-16 |

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| **Senior Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | BIO 3710 | Cell Biology (WE) | 4 |  | BIO Elective\*\*\* |  | 3-4 |
|  | PHY 1510 | College Physics II | 3 |  | Pre-PT Elective | Medical Terminology (NUR 2010) or one taken at community college, recommended.  Can take additional PSY or EXPH | 3 |
|  | PHY 1570 | College Physics Lab II | 1 |  | General Education | Social Science\*\* | 3 |
|  | General Education | Philosophy or Religion | 3 |  | University-wide Elective |  | 3-4 |
|  | Pre-PT Elective | EXPH Block. Choose EXPH 4120 Exercise Physiology (recommended) or EXPH 4100 Biomechanics | 3 |  | Writing in the Discipline Course | BIO 4700 or other WD | 3 |
|  | University-wide Elective |  | 3-4 |  |  |  |  |
| **Total Credits** | | | 17-18 | **Total Credits** | | | 15-17 |