

# BACHELOR OF SCIENCE IN BIOLOGY - PRE- PROFESSIONAL CONCENTRATION

## Summary of Graduation Requirements

| Subject Area   | Credits    |
|--|------------|
| General Education Core ( <a href="https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/">https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/</a> ) | 45         |
| Major Requirements   | 46         |
| Electives  | 3          |
| Other Requirements   | 26         |
| <b>Total Credit Hours</b>  | <b>120</b> |

## Biology 3 Curriculum

| Course                             | Title  | Credits   |
|------------------------------------|--|-----------|
| <b>First Year</b>                  |  |           |
| SEM 101 & SEM 102                  | Spartan Seminar 101 and Spartan Seminar 102                        | 2         |
| BIO 110 & 110L                     | General Biology and General Biology Laboratory                     | 4         |
| BIO 111 & 111L                     | General Biology II and General Biology II Laboratory               | 4         |
| ENG 101                            | College English I  | 3         |
| ENG 102                            | College English II   | 3         |
| HED 100                            | Personal and Community Health                                      | 2         |
| Select one of the following:       |  | 3         |
| HIS 100                            | History of World Societies I                                       |           |
| POS 100                            | American National Government, American Government                  |           |
| SOC 110                            | Introduction to Sociology  |           |
| MTH 151                            | College Algebra  | 3         |
| MTH 153                            | College Algebra & Trigonometry                                     | 3         |
| PED 100                            | Fundamentals of Fitness for Life                                   | 1         |
| <b>Credits</b>                     |  | <b>28</b> |
| <b>Second Year</b>                 |  |           |
| SEM 201                            | Spartan Seminar 201  | 1         |
| BIO 260 & 260L                     | Integrative Zoology and Integrative Zoology Laboratory             | 4         |
| BIO 261 & 261L                     | General Botany and General Botany Laboratory                       | 4         |
| BIO XXX: Select one Biology course |  | 4         |
| BIO 271 & BIO 270L                 | Ecology and Comparative Vertebrate Anatomy & Physiology Laboratory |           |
| BIO 278 & 278L                     | Cell Biology and Cell Biology Laboratory                           |           |
| BIO 350 & 350L                     | Parasitology and Parasitology Laboratory                           |           |

|                |  |           |
|----------------|--|-----------|
| CHM 221 & 221L | General Chemistry I and General Chemistry I Laboratory   | 4         |
| CHM 222 & 222L | General Chemistry II and General Chemistry II Laboratory | 4         |
| MTH 184        | Calculus I   | 4         |
| XXX 111        | Intro to French, Spanish, German or Arabic               | 3         |
| XXX 112        | Intro to French, Spanish, German or Arabic               | 3         |
| ENG 285        | Public Speaking  | 3         |
| <b>Credits</b> |  | <b>34</b> |

## Third Year

|                                       |  |           |
|---------------------------------------|--|-----------|
| BIO XXX                               | Select one of the following:   | 4         |
| BIO 263 & 263L                        | Vertebrate Embryology and Vertebrate Embryology Lab  |           |
| BIO 264 & 264L                        | Concepts of Developmental Biology and Concepts of Developmental Biology Labor                            |           |
| BIO XXX: Select one of the following: |  | 4         |
| BIO 270 & 270L                        | Comparative Vertebrate Anatomy and Physiology and Comparative Vertebrate Anatomy & Physiology Laboratory |           |
| BIO 272 & 272L                        | Human Anatomy and Human Anatomy Laboratory   |           |
| CSC 150                               | Computer Literacy  | 3         |
| BIO 310 & 310L                        | General Microbiology and General Microbiology Laboratory   | 4         |
| CHM 321 & 321L                        | Organic Chemistry I and Organic Chemistry I Laboratory   | 5         |
| CHM 322 & 322L                        | Organic Chemistry II and Organic Chemistry II Laboratory   | 5         |
| PHY 152 & 152L                        | General Physics and General Physics Laboratory I   | 4         |
| PHY 153 & 153L                        | General Physics and General Physics Laboratory II  | 4         |
| <b>Credits</b>                        |  | <b>33</b> |

## Fourth Year

|  |  |   |
|--|--|---|
| BIO 351 & 351L                                   | Principles of Genetics and Principles of Genetics Laboratory | 4 |
| BIO 364  | Seminar and Colloquium in Biology                            | 1 |
| Select one of the following:                     |  | 4 |
| BIO 459 & 459L                                   | General Physiology and General Physiology Laboratory         |   |
| BIO 461 & 461L                                   | Plant Physiology and Plant Physiology Laboratory             |   |
| BIO 469 & 469L                                   | Biochemistry and Biochemistry Laboratory                     | 4 |
| Select one Humanities Elective of the following: |  | 3 |
| FIA 201  | Basic Art Appreciation                                       |   |
| HUM 210  | Humanities   |   |
| MUS 301  | Music Appreciation   |   |
| ENG 207  | Introduction to World Literature                             |   |
| Select two Cultural Electives of the following:  |  | 6 |
| HIS 335  | African-American History                                     |   |
| HIS 336  | African-American History Since 1865                          |   |
| MUS 234  | African-American Music                                       |   |

|                      |   |            |
|----------------------|---|------------|
| HRP 320              | African American Health                       |            |
| ENG 383              | African-American Literature, 1940-<br>PRESENT |            |
| FIA 370              | African/Afro-American Art                     |            |
| XXX XXX              | Free Elective                                 | 3          |
| <b>Credits</b>       |   | <b>25</b>  |
| <b>Total Credits</b> |   | <b>120</b> |

All Biology courses require students to take both lecture (3 credits) and lab (1 credit) with the exception of BIO 364 Seminar and Colloquium in Biology and BIO 495 Biostatistics. The lab for BIO 474 Molecular Biology is 2 credits.