**B. S. in Biology Agricultural Science Emphasis 2024-2025**

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| **Freshman Year 2024-2025** |
| **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 1010 or BIO 1020 | General Botany orGeneral Zoology | 4 |
|  | MAT 1070 or MAT 1090 | College Algebra or Precalculus | 3 or4 |  | CHM 1300 | General Chemistry | 3 |
|  | BIO 1000\* | Principles of Biology  | 3 |  | CHM 1100 | General Chemistry Laboratory I | 1 |
|  | BIOL 1000 | Biology Laboratory | 1 |  | ENV 2450 (odd springs only) | Principles of Sustainable Agriculture | 4 |
|  | General Education | Fine Arts | 3 |  |
| **Total Credits**  | 14-15 |  | **Total Credits**  | 15 |

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| **Sophomore Year 2025-2026** |
| **Fall** | **Spring** |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | General Education | Literature | 3 |  | MAT 2100 | Introduction to Statistics | 3 |
|  | CHM 1310 | General Chemistry II | 3 |  | ENV3250(even springs only) | Cropping and Weed Management | 3 |
|  | CHM 1110 | General Chemistry Laboratory II  | 1 |  | BIO 1010 orBIO 1020 | General Botany orGeneral Zoology | 4 |
|  | Agricultural Science Elective\*\* |  | 3-4 |  | General Education | History | 3 |
|  | BIO 1040 (odd falls only) | Introduction to Animal Science | 3 |  | University Wide Electives \*\*\* |  | 3 |
|  | General Education | Physical Education | 1 |  |
| **Total Credits** | 14-15 |  | **Total Credits** | 16 |

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| **Junior Year 2026-2027** |
| Fall | Spring |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | University Wide Electives\*\*\* |  | 3 |  | ENV 3200(odd springs only) | Soils and Hydrology | 4 |
|  | ENV 4200(even falls only) | Pest Management | 4 |  | BIO 3040 | Principles of Ecology | 4 |
|  | Agricultural Science Elective\*\*  |  | 3-4 |  | University Wide Electives\*\*\* |  | 3 |
|  | BIO 4700 (WD) | Reading/Writing in the Natural Sciences | 3 |  | General Education | Social Science | 3 |
|  | General Education | Physical Education | 1 |  | General Education  | Philosophy and Religion  | 3 |
| **Total Credits** | 14-15 | **Total Credits** | 16-17 |

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| **Senior Year 2027-2028** |
| **Fall** | **Spring** |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | BIO 4010 | Agriculture Internship  | 3 |  | General Education  | Elective | 3 |
|  | BIO 2180 | Principles of Genetics | 4 |  | General Education | Social Science | 3 |
|  | University Wide Electives\*\*\* |  | 3 |  | Agricultural Science Elective\*\* |  | 3-4 |
|  | University Wide Electives\*\*\* |  | 3 |  | University Wide Electives\*\*\* |  | 3 |
|  | University Wide Electives\*\*\* |  | 3 |  | University Wide Electives\*\*\* |  | 3 |
| **Total Credits** | 16 | **Total Credits** | 15 |

**\*\*Approved Agricultural Science Electives** **Arranged by Areas of Interest** (areas of interest are optional groupings):

Students may take any of the courses from the list below, but we recommend that students consider adopting one of the Areas of Interest outlined below and take elective courses accordingly. Many courses are only offered every other year and in spring OR fall. All students should review the Biology Course Offerings webpage to see availability: https://www.uncp.edu/departments/biology/undergraduate-programs/courses/bio-undergraduate-course-offerings.

* ***Area of interest – Animal Husbandry***BIO 3190 Animal Parasitology (4), BIO 2410 Animal Nutrition (3), BTEC 4300 Principles of Medical Biotechnology (3), BIO 2060 Animal Reproductive Physiology (4)
* ***Area of interest – Plant Cropping***BIO 3540 Plant Physiology (4), BIO 3010 Entomology (4), BIO 2010 Techniques in Horticulture (4), BIO 2020 Tropical Horticulture (3)
* ***Area of interest – Niche Farming***
BIO 2080 Introductory Mycology (4), BIO 2420 Beekeeping (3), BIO 3020 Greenhouse Crop Production and Management (4)
* ***Area of interest – Food Systems***ENV 4100 Environmental Laws and Regulations (3), ECN 3080 Environmental Economics (3), SOC 2090 Food Inequality and Social Justice (3)
* ***Area of interest – Sustainable Agriculture***BIO 3420 Pollution Ecology (3), BIO 4320 Conservation Biology (4), BIO 4510 Small Farm Systems (4), ENV 3100 Freshwater Ecosystems and Watershed Management (4)
* ***Area of interest – Agricultural Technology***GLY 2700 Intro to GIS (4), GLY 4040 Remote Sensing (3), GLY 2620 Environmental Geology (3),
GLY 2460 Weather and Climate (3)

**\*\*\* Students with an interest in entrepreneurship or small business are encouraged to use some of their university electives to obtain an Entrepreneurship Certificate. The following courses are required for this certificate: ENTR 2000, ENTR 2100, ENTR 4000**

**ALL GENERAL EDUCATION COURSES CAN BE INTERCHANGED**

\*C or higher is required in BIO 1000 to matriculate to other BIO Courses in the major

QPA Requirements for Baccalaureate Graduation: “Have a minimum overall cumulative quality point average of 2.0 and have a minimum cumulative quality point average of 2.0 in all work attempted at the University of North Carolina at Pembroke; Have a minimum overall cumulative quality point average of 2.0 in the major field of study”

Revised 3/2024 Biology Department