

Name: \_\_\_\_\_

**NORTH DAKOTA STATE UNIVERSITY**  
College of Agriculture, Food Systems & Natural Resources  
**Crop and Weed Sciences**

T = Transfer Credit  
IP = Course is 'In Progress'

ID: \_\_\_\_\_

Fall 2020

| General Education Requirements - 39 Credits Required                                  |                       |   |         |       | Options: Check One to Complete                      |            |   |         |       |
|---|-----------------------|---|---------|-------|---|------------|---|---------|-------|
| Course  | Number                | Course Title                                  | Credits | Grade | <input type="checkbox"/> Agronomy                   |            | <input type="checkbox"/> Biotechnology        |         |       |
|   |                       |   |         |       | <input type="checkbox"/> Weed Science               |            | <input type="checkbox"/> Science              |         |       |
|   |                       |   |         |       | Course  | Number     | Course Title                                  | Credits | Grade |
| Communication (C) 12 Sem Credits  |                       |   |         |       | <b>Agronomy Option: 16-18 Credits Required</b>      |            |   |         |       |
| ENGL  | 110                   | College Composition I (F,S)                   | 3       |       | CHEM or   | 240 or     | Survey of Organic Chemistry (F) or            | 3 or    |       |
| ENGL  | 120                   | College Composition II (F,S)                  | 3       |       | BIOC or   | 260* or    | Elements of Biochemistry (S) or               | 4 or    |       |
| COMM  | 110                   | Fundamentals of Public Speaking (F,S)         | 3       |       | BIOL  | 461        | Plant Ecology (F)                             | 3       |       |
| ENGL  | 320, 321 or 324 (F,S) |   | 3       |       | MATH  | 103        | College Algebra or higher (F,S)               | 3       |       |
| Quantitative Reasoning (R) 3 Sem Credits  |                       |   |         |       | MICR  | 202/202L   | Introductory Microbiology/Lab (F,S)           | 2/1     |       |
| STAT  | 330                   | Introductory Statistics (F,S)                 | 3       |       | PLSC  | 300-400    | (no more than 2 credits of co-op may be used) | 4       |       |
| Science & Technology (S) (Fulfilled with courses in major and options) 10 Sem Credits |                       |   |         |       | SOIL  | 322        | Soil Fertility and Fertilizers (S)            | 3       |       |
| CHEM  | 121/121L              | General Chemistry I/Lab (F,S)                 | 3/1     |       | *CHEM   | 140        | Organic prep prerequisite for BIOC 260        | 1       |       |
| CHEM  | 122                   | General Chemistry II Lab (F,S)                | 3       |       | <b>Weed Science Option: 22-24 Credits Required</b>  |            |   |         |       |
| PLSC  | 110                   | World Food Crops (F,S)                        | 3       |       | CHEM  | 240 or     | Survey of Organic Chemistry (F) or            | 3 or    |       |
| Humanities & Fine Arts (A) 6 Sem Credits  |                       |   |         |       | BIOC  | 260*       | Elements of Biochemistry (S)                  | 4       |       |
|   |                       |   | 3       |       | ENT   | 431        | Princ. of Insect Pest Management (S odd)      | 3       |       |
|   |                       |   | 3       |       | MATH  | 103        | College Algebra or higher (F,S)               | 3       |       |
| Social & Behavioral Sciences (B) 6 Sem Credits  |                       |   |         |       | MICR  | 202/202L   | Introductory Microbiology/Lab (F,S)           | 2/1     |       |
| ECON  | 201                   | Principles of Microeconomics (F,S)            | 3       |       | PLSC  | 433        | Weed Biology and Ecology (S even)             | 2       |       |
|   |                       |   | 3       |       | PLSC  | 453        | Advanced Weed Science (F)                     | 2       |       |
| Wellness (W) 2 Sem Credits  |                       |   |         |       | PPTH  | 454        | Diseases of Field & Forage Crops (S even)     | 3       |       |
|   |                       |   | 2       |       | SOIL  | 322        | Soil Fertility and Fertilizers (S)            | 3       |       |
| Cultural Diversity (D)  |                       |   |         |       |   |            |   |         |       |
| Global Perspectives (G) PLSC 110 World Food Crops (F,S)                               |                       |   |         |       |   |            |   |         |       |
|   |                       |   |         |       | *CHEM   | 140        | Organic prep (F) (prerequisite for BIOC 260)  | 1       |       |
| <b>Major Requirements - 44 Credits Required</b>                                       |                       |   |         |       | <b>Biotechnology Option: 19-21 Credits Required</b> |            |   |         |       |
| Course  | Number                | Course Title                                  | Credits | Grade | BIOC  | 460*       | Foundations of Molecular Biology I (F)        | 3       |       |
| PLSC  | 189 <sup>1</sup>      | Skills for Academic Success (F)               | 1       |       | MATH  | 105 or     | Trigonometry (F,S) or                         | 3 or    |       |
| BIOL  | 150/150L              | General Biology I/Lab (F)                     | 3/1     |       |   | 146        | Applied Calculus I (F,S)                      | 4       |       |
| BIOL  | 151/151L              | General Biology II/Lab (S)                    | 3/1     |       | MICR  | 350/350L   | General Microbiology I/Lab (F)                | 3/2     |       |
| CHEM  | 122L                  | General Chemistry II Lab (F,S)                | 1       |       | PLSC  | 453 or     | Advanced Weed Science (F) or                  | 2 or    |       |
| ENT   | 350                   | General Entomology (F)                        | 3       |       |   | 431        | Intermediate Genetics (F)                     | 3       |       |
| PLSC  | 215                   | Weed Identification (F)                       | 1       |       | PLSC  | 484        | Plant Tissue Culture & Micropropagation (F)   | 3       |       |
| PLSC  | 225                   | Principles of Crop Production (S)             | 3       |       | *CHEM   | 240 or 341 | Organic Chem (F) prerequisite for BIOC 460    | 3       |       |
| PLSC  | 312                   | Expanding the Boundaries of Learning (S)      | 1       |       | <b>Science Option: 27 Credits Required</b>          |            |   |         |       |
| PLSC  | 315/315L              | Genetics/Lab (F,S)                            | 3/1     |       | MICR  | 202/202L   | Introductory Microbiology/Lab (F,S)           | 2/1     |       |
| PLSC  | 320                   | Principles of Forage Production (F)           | 3       |       | CHEM  | 341/341L   | Organic Chemistry I/Lab (F)                   | 3/1     |       |
| PLSC  | 323                   | Principles of Weed Science (S)                | 3       |       | MATH  | 146        | Applied Calculus I (F,S)                      | 4       |       |
| PLSC  | 380                   | Principles of Plant Physiology (S)            | 3       |       | PLSC  | 300-400    | (No more than 2 credits of co-op may be used) | 4       |       |
| PLSC  | 444                   | Applied Plant Breeding & Research Methods (F) | 3       |       | <b>(12 Elective Credits in Science and Math)</b>    |            |   |         |       |
| PLSC  | 455                   | Cropping Systems (Capstone) (S)               | 3       |       |   |            |   |         |       |
| PLSC  | 491                   | Senior Seminar (F,S)                          | 1       |       |   |            |   |         |       |
| PPTH  | 324                   | Introduction to Plant Pathology (F)           | 3       |       |   |            |   |         |       |
| SOIL  | 210                   | Introduction to Soil Science (F,S)            | 3       |       |   |            |   |         |       |
| <b>Curriculum Continued on the backside of this form</b>                              |                       |   |         |       |   |            |   |         |       |

Crop and Weed Sciences - Fall 2020 Continued

|   | Course  | Number | Course Title | Credits | Grade |  |
|---|---|--------|--------------|---------|-------|--|
| <p><b>Agromony</b> is a general option for students most interested in production agriculture. This popular option provides the most flexibility in course selection.</p> | <b>Potential of 20 credits to reach 120 credits<br/>(No more than 6 credits may be co-op)</b> |        |              |         |       |  |
| <p><b>Weed Science</b> is for students interested in crop consulting, weed science, and plant protection areas.</p>   |   |        |              |         |       |  |
| <p><b>Biotechnology</b> is for students who wish to work in the biotechnology industry or pursue graduate study in crop biotechnology.</p>                                |   |        |              |         |       |  |
| <p><b>Science</b> is for students interested in a MS or PhD and who want more foundation studies for these studies.</p>   |   |        |              |         |       |  |
| <p>*Pre-requisite apply; refer to Campus Connection or NDSU Undergraduate Bulletin for course pre-requisites.</p>   |   |        |              |         |       |  |
| <p><sup>1</sup>Students transferring in 24 or more credits do not need to take PLSC 189.</p>  |   |        |              |         |       |  |
| <p><b>All courses listed on this curriculum guide are required for the major.</b></p> <p><b>A 2.00 cumulative GPA is required for graduation</b></p>                      | <b>Total Credits Required for Graduation</b>  |        |              | 120     |       |  |
|   | <b>University Requirements:</b>   |        |              |         |       |  |
|   | Upper Level (300-400 level) Credits   |        |              |         | 37    |  |
|   | Residence:  |        |              |         |       |  |
|   | Credit from a 4-Year  |        |              |         | 60    |  |
| Credits taken at NDSU   |   |        |              | 36      |       |  |
| 15 of 36 must be in the major   |   |        |              |         |       |  |
| 15 of 36 must be upper-level courses  |   |        |              |         |       |  |
| <i>The last 30 credits must be taken at NDSU</i>  |   |        |              |         |       |  |