COLLEGE OF AG, FOOD SYSTEMS & NATURAL RESOURCES
MAJOR: CROP & WEED SCIENCES
ACADEMIC YEAR: 2013-2014
DEGREE TYPE: B.S.
REQUIRED DEGREE CREDITS TO GRADUATE: 128

GENERAL EDUCATION REQUIREMENTS – 40 CREDITS

Lower Division Requirements – 37 Credits
First Year Experience (F) - 1 Credit
AGRI 189 Skills for Academic Success 1 cr
Students transferring in 24 or more credits do not need to take AGRI 189.

Communication (C) - 9 Credits
ENGL 110 College Composition I 3 cr
ENGL 120 College Composition II 3 cr
COMM 110 Fund of Public Speaking 3 cr

Quantitative Reasoning (R) - 3 Credits
STAT 330 Introductory Statistics 3 cr

Science & Technology (S) - 10 Credits
This area will be satisfied with courses prescribed by the major.

Humanities & Fine Arts (A) - 6 Credits
Select from current general education courses www.ndsu.edu/registrar/gened/

Social & Behavioral Sciences (B) - 6 Credits
ECON 201 Principles of Microeconomics 3 cr
Select from current general education courses www.ndsu.edu/registrar/gened/

Wellness (W) - 2 Credits
Select from current general education courses www.ndsu.edu/registrar/gened/

Cultural Diversity (D)
Select from current general education courses www.ndsu.edu/registrar/gened/

Global Perspectives (G)
ECON 201 Principles of Microeconomics

Upper Division Requirements - Writing – 3 Credits
ENGL 320, 321, or 324 3 cr

REQUIRED COURSES FOR CROP & WEED SCIENCES – 51 CREDITS
AGRI 150 Agriculture Orientation 1 cr
Students transferring in 24 or more credits do not need to take AGRI 150.

BIOL 150/L General Biology I/Lab 3/1 cr
BIOL 151/L or General Biology II/Lab 3/1 or 4 cr

BOT 372 Structure & Diversity of Plants & Fungi

CHEM 121/L General Chemistry I/Lab 3/1 cr
CHEM 122/L General Chemistry II/Lab 3/1 cr

ENT 350 General Entomology 3 cr

PLSC 110 World Food Crops 3 cr
PLSC 215 Weed Identification 1 cr
PLSC 225 Principles of Crop Production 3 cr
PLSC 312 Expanding the Boundaries of Learning 1 cr
PLSC 315/L Genetics/Lab 3/1 cr

PLSC 320 Principles of Forage Production 3 cr
PLSC 323 Principles of Weed Science 3 cr
PLSC 444 Applied Plant Breeding & Research Methods 3 cr
PLSC 455 Cropping Systems (Capstone) 3 cr
PLSC 491 Senior Seminar 1 cr

PPTH 324 Introduction to Plant Pathology 3 cr

SOIL 210 Introduction to Soil Science 3 cr

OPTIONS – Select one of the following four options:
The standard option for this major is the Agronomy. Students who wish to declare a specific option must declare that option with Registration and Records.

1) Agronomy Option – 19-20 Credits
For students interested in production agriculture; this option provides the most flexibility in course selection.

MICR 202/L Introductory Microbiology/Lab 2/1 cr
BOT 380 Plant Physiology 3 cr

CHEM 240 or Survey of Organic Chemistry 3 or 4 cr
260 or Elements of Biochemistry

BOT 460 Plant Ecology

MATH 103 College Algebra or higher 3 cr
PLSC 300-400 (no more than 2 credits of co-op) 4 cr
SOIL 322 Soil Fertility and Fertilizers 3 cr

Degree electives for option one to reach the minimum 128 credits for graduation: 18-19 credits

2) Biotechnology Option – 19-21 Credits
For students who wish to work in the biotechnology industry or pursue graduate study in crop biotechnology.

BIOC 460 Foundations of Molecular Biology I 3 cr

BOT 380/L Plant Physiology/Lab 3/1 cr
MATH 105 or Trigonometry 3 or 4 cr
146 Applied Calculus I

MICR 350/L General Microbiology I/Lab 3/2 cr
PLSC 453 or Advanced Weed Science or 2 or 3 cr
431 Intermediate Genetics

PLSC 484 Plant Tissue, Culture, & Biotechnology 2 cr

Degree electives for option two to reach the minimum 128 credits for graduation: 16-18 credits
3) **Science Option – 31 Credits**
For students interested in advanced study and want more foundation studies.

- MICR 202/L Introductory Microbiology/Lab 2/1 cr
- BOT 380/L Plant Physiology/Lab 3/1 cr
- CHEM 341/L Organic Chemistry I/Lab 3/1 cr
- MATH 146 Applied Calculus I 4 cr
- PLSC 300-400 (No more than 2 credits of co-op may be used) 4 cr

Science and Math Electives 12 cr

Degree electives for option three to reach the minimum 128 credits for graduation: 6 credits

4) **Weed Science Option – 28-29 Credits**
For students interested in crop consulting, weed science, and plant protection areas.

- AGEC 375 or Applied Ag Law 3 cr
- AGEC 484 or Ag Policy
- BUSN 431 or Business Law I
- SAFE 452 Food Laws and Regulations
- MICR 202/L Introductory Microbiology/Lab 2/1 cr
- BOT 380/L Plant Physiology 3/1 cr
- CHEM 240 or Survey of Organic Chemistry 3 or 4 cr
- CHEM 260 Elements of Biochemistry
- MATH 103 College Algebra or higher 3 cr
- PLSC 433 Weed Biology and Ecology 2 cr
- PLSC 453 Advanced Weed Science 2 cr
- PLSC 300-400 2 cr
- PPTH 454 Diseases of Field & Forage Crops 3 cr
- SOIL 322 Soil Fertility and Fertilizers 3 cr

Degree electives for option four to reach the minimum 128 credits for graduation: 8-9 credits

**Degree Requirements and Notes:**
- No more than 6 credits may be cooperative education (co-op)