

Crop and Weed Science

Department Information

- **Department Web Site:**
www.ndsu.edu/agriculture/academics/academic-units/plant-sciences/undergraduate-majors/crop-and-weed-sciences (<http://www.ndsu.edu/agriculture/academics/academic-units/plant-sciences/undergraduate-majors/crop-and-weed-sciences/>)
- **Credential Offered:**
B.S.; Minor
- **Sample Program Guide:**
catalog.ndsu.edu/programs-study/undergraduate/crop-weed-science/#planofstudytext (<http://catalog.ndsu.edu/programs-study/undergraduate/crop-weed-science/#planofstudytext>)

Major Requirements

Major: Crop & Weed Sciences

Degree Type: B.S.

Minimum Degree Credits to Graduate: 120

University Degree Requirements

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 30 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.
6. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
7. Students presenting transfer credit must meet the NDSU residence credits and the minimum upper level credit. Of the 30 credits earned in residence, a minimum of 15 semester credits must be in courses numbered 300 or above, and 15 semester credits must be in the student's curricula for their declared major.

For complete information, please refer to the Degree and Graduation Requirements (<http://catalog.ndsu.edu/past-bulletin-archive/2024-25/academic-policies/undergraduate-policies/degree-and-graduation/>) section of this Bulletin.

University General Education Requirements

A list of university approved general education courses and administrative policies are available here (<http://catalog.ndsu.edu/past-bulletin-archive/2024-25/academic-policies/undergraduate-policies/general-education/#genedcoursestext>).

Code	Title	Credits
Category C: Communication		12
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing [†]		
Category R: Quantitative Reasoning [†]		3
Category S: Science and Technology [†]		10
Category A: Humanities and Fine Arts [†]		6
Category B: Social and Behavioral Sciences [†]		6
Category W: Wellness [†]		2
Category D: Cultural Diversity ^{**†}		
Category G: Global Perspectives ^{**†}		
Total Credits		39

*

Courses for category D & G are satisfied by completing D & G designated courses in another general education category.

†

General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

Major Requirements

Code	Title	Credits
Required Courses for Crop & Weed Sciences		
PLSC 189	Skills for Academic Success	1
BIOL 150 & 150L	General Biology I and General Biology I Laboratory	4
BIOL 151 & 151L	General Biology II and General Biology II Laboratory	4
CHEM 121 & 121L	General Chemistry I and General Chemistry I Laboratory	4
CHEM 122 & 122L	General Chemistry II and General Chemistry II Laboratory	4
ECON 201	Principles of Microeconomics	3
ENT 350	General Entomology	3
PLSC 110	World Food Crops	3
PLSC 215	Weed Identification	1
PLSC 225	Principles of Crop Production	3
PLSC 312	Expanding the Boundaries of Learning with Service	1
PLSC 315 & 315L	Genetics and Genetics Laboratory	4
PLSC 380	Principles of Plant Physiology	3
PLSC 420	Integrated Forage and Cover Crops Production Management and Ecosystem Services ²	3
PLSC 323	Principles of Weed Science	3
PLSC 455	Cropping Systems:An Integrated Approach ²	3
PLSC 491	Seminar	1
PPTH 324	Introductory Plant Pathology	3
SOIL 210	Introduction to Soil Science	3
STAT 330	Introductory Statistics	3
Options: Select one from the following four option areas:		
The standard default option for the major is Agronomy. Student wishing to pursue a different option must officially declare that option with the Office of Registration and Records.		16-27
Total Credits		73-84

Agronomy Option

For students interested in production agriculture.

Code	Title	Credits
Agronomy Requirements		
BIOL 461 or BIOC 260 or CHEM 240	Plant Ecology ² Elements of Biochemistry Survey of Organic Chemistry	3-4
MATH 103	College Algebra (or higher)	3
MICR 202 & 202L	Introductory Microbiology and Introductory Microbiology Lab	3
SOIL 322	Soil Fertility and Fertilizers	3
PLSC 300-400	(No more than 2 credits of co-op allowed) ²	4
Total Credits		16-17

Biotechnology Option

For students interested in the biotechnology industry or pursuing graduate study in crop biotechnology.

Code	Title	Credits
Biotechnology Requirements		
BIOC 460	Foundations of Biochemistry and Molecular Biology I ²	3
MATH 105 or MATH 146	Trigonometry Applied Calculus I	3-4
MICR 350 & 350L	General Microbiology and General Microbiology Lab	5
PLSC 453 or PLSC 431	Advanced Weed Science ² Intermediate Genetics	2-3
PLSC 484	Plant Tissue Culture and Biotechnology ²	3
Total Credits		16-18

Science Option

For students interested in advanced study and foundational studies.

Code	Title	Credits
Science Requirements		
CHEM 341 & 341L	Organic Chemistry I and Organic Chemistry I Laboratory	4
MATH 146	Applied Calculus I	4
MICR 202 & 202L	Introductory Microbiology and Introductory Microbiology Lab	3
PLSC 300-400	(No more than 2 credits of co-op may be used) ²	4
Science and Math Electives	BIOC, BIOL, CHEM, MATH, MICR, and STAT prefix courses (100-400 level)	12
Total Credits		27

Weed Science Option

For students interested in crop consulting, weed science, and plant protection areas.

Code	Title	Credits
Weed Science Requirements		
CHEM 240 or BIOC 260	Survey of Organic Chemistry Elements of Biochemistry	3-4
ENT 431	Principles of Insect Pest Management ²	3
MATH 103	College Algebra (or higher level)	3
MICR 202 & 202L	Introductory Microbiology and Introductory Microbiology Lab	3
PLSC 433	Weed Biology and Ecology ²	2
PLSC 453	Advanced Weed Science ²	2
PPTH 454	Diseases Of Field and Forage Crops ²	3
SOIL 322	Soil Fertility and Fertilizers	3
Total Credits		22-23

Degree Requirements and Notes

- The major allows no more than 6 credits of cooperative education (co-op) to be counted toward degree requirements.

1

PLSC 189 is only required for first-time, first-year students. These are students who have not yet completed a college course as a college student. Student that are not first-time, first-year students that either transfer into the university or change their major are not required to take this requirement.

2

Students who are approved to complete the accelerated program in the Master of Science in Plant Sciences are eligible to complete the 600 level course with graduate supervisor approval. Students are allowed to take 15 graduate credits and apply the graduate credit to these undergraduate program requirements. Students are required to complete the Accelerated Degree Student Declaration form and make formal application to the NDSU Graduate School.