Horticulture

Department Information

· Department Location:

166 Loftsgard Hall

· Department Phone:

701-231-7971

· Department Web Site:

www.ag.ndsu.edu/agriculture/academics/acacdemic-units/plantsciences/ (http://www.ag.ndsu.edu/agriculture/academics/acacdemic-units/plantsciences/)

· Credential Offered:

B.S.

· Sample Program Guide:

catalog.ndsu.edu/programs-study/undergraduate/horticulture/#planofstudytext (http://catalog.ndsu.edu/programs-study/undergraduate/horticulture/#planofstudytext)

Major Requirements

Major: Horticulture

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 36 credits presented for graduation must be in courses numbered 300 or higher.
- 6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
 - a. Of these 60, at least 36 must be NDSU resident credits as defined in #7.
- b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
- 7. At least 36 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/past-bulletin-archive/2022-23/academic-policies/undergraduate-policies/degree-and-graduation/) section of this Bulletin.

University General Education Requirements

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

- May be satisfied by completing 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.
- · A list of university approved general education courses and administrative policies are available here (http://catalog.ndsu.edu/past-bulletinarchive/2022-23/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

Major Requirements

Code	Title	Credits
Required Core Courses for Horticul	ture	
PLSC 189	Skills for Academic Success ¹	1
BIOL 150	General Biology I	3
BIOL 151	General Biology II	3
PLSC 380	Principles of Plant Physiology	
CHEM 121	General Chemistry I	4
& 121L	and General Chemistry I Laboratory	
CHEM 122	General Chemistry II	3
CSCI 114	Computer Applications	3
or TL 116	Business Software Applications	
ECON 105	Elements of Economics	3
or ECON 201	Principles of Microeconomics	
or ECON 202	Principles of Macroeconomics	
ENT 350	General Entomology	3
MATH 103	College Algebra	3
PLSC 210	Horticulture Science	3
PLSC 211	Horticulture Science Lab	1
PLSC 215	Weed Identification	1
PLSC 355	Woody Landscape Plants	3
PLSC 365	Herbaceous Landscape Plants	2
PLSC 457	Horticulture and Turfgrass Systems (Capstone)	3
PLSC 496	Field Experience	2
or PLSC 493	Undergraduate Research	
or PLSC 494	Individual Study	
PLSC 491	Seminar	1
PPTH 324	Introductory Plant Pathology	3
SOIL 210	Introduction to Soil Science	3
STAT 330	Introductory Statistics	3
Option: Students select one of the six options listed below.		

Option: Students select one of the six options listed below.

Option information: Students must select one of the options listed below to complete the major. The standard option is Production Business; 33-34 if students wish to complete one of the other options availalbe they must officially declare their option with the Office of Registration and Records.

Total Credits 84-85

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

Production-Business Option (Standard) - 33 Credits

Code	Title	Credits
ACCT 102	Fundamentals of Accounting	3
ENT 431	Principles of Insect Pest Management	3
MGMT 320	Foundations of Management	3
MRKT 320	Foundations of Marketing	3
or MGMT 430	Leadership in Organizations	

PLSC 368	Plant Propagation	3
PPTH 455	Plant Disease Management	3
or PPTH 457	Landscape Plant Pathology	
Electives: Select 15 credit	ts of the following:	15
ASM 373	Tractors & Power Units	
ENTR 201	Introduction to Entrepreneurship	
PLSC 177	Floral Design I	
PLSC 296	Field Experience	
PLSC 323	Principles of Weed Science	
PLSC 375	Turfgrass Management	
PLSC 375L	Turfgrass Management Laboratory	
PLSC 412	Nursery Production and Management	
PLSC 415	Vegetable Crop Production	
PLSC 416	Fruit Crop Production	
PLSC 422	Greenhouse Production and Management	
PLSC 425	Potato Science	
PLSC 453	Advanced Weed Science	
PLSC 465	Advanced Landscape Plants	
PLSC 484	Plant Tissue Culture and Biotechnology	
PLSC 486	Applied Crop Physiology	
SOIL 322	Soil Fertility and Fertilizers	
Total Credits		33

Horticulture Science Option - 33 Credits

Code	Title	Credits
BIOC 260	Elements of Biochemistry	4
CHEM 122L	General Chemistry II Laboratory	1
CHEM 240	Survey of Organic Chemistry	3
MATH 146	Applied Calculus I	4
PLSC 315	Genetics	3
PLSC 315L	Genetics Laboratory	1
PLSC 368	Plant Propagation	3
Electives: Select 14 credits of the fo	llowing:	14
PLSC 296	Field Experience	
PLSC 323	Principles of Weed Science	
PLSC 375	Turfgrass Management	
& 375L	and Turfgrass Management Laboratory	
PLSC 411	Genomics	
PLSC 412	Nursery Production and Management	
PLSC 415	Vegetable Crop Production	
PLSC 416	Fruit Crop Production	
PLSC 422	Greenhouse Production and Management	
PLSC 425	Potato Science	
PLSC 431	Intermediate Genetics	
PLSC 444	Applied Plant Breeding and Research Methods	
PLSC 453	Advanced Weed Science	
PLSC 465	Advanced Landscape Plants	
PLSC 484	Plant Tissue Culture and Biotechnology	
PLSC 485	Arboriculture Science	
PLSC 486	Applied Crop Physiology	
PPTH 455	Plant Disease Management	
or PPTH 457	Landscape Plant Pathology	

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ENTR 201

SOIL 465	Soil And Plant Analysis	
STAT 331	Regression Analysis	
STAT 367	Probability	
STAT 462	Introduction to Experimental Design	
Total Credits		33
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Landscape Design O		
This option also requires	the completion of the Landscape Architecture minor (19 credits).	
Code	Title	Credits
ENVD 102	Drawing Basics for Environmental Designers	1
ENVD 104	Environmental Design Fundamentals	1
ENVD 130	Drawing Skills for Environmental Designers	3
ENVD 172	Environmental Design Fundamentals Studio	3
PLSC 341	Landscape Bidding, Contracting and Operations	2
Electives: Select 5 credit	s of the following:	5
PLSC 177	Floral Design I	
PLSC 296	Field Experience	
PLSC 375	Turfgrass Management	
PLSC 375L	Turfgrass Management Laboratory	
PLSC 412	Nursery Production and Management	
PLSC 422	Greenhouse Production and Management	
PLSC 465	Advanced Landscape Plants	
PLSC 468	Landscape Irrigation Design	
PLSC 469	Landscape Irrigation Installation and Management	
PLSC 485	Arboriculture Science	
PPTH 457	Landscape Plant Pathology	
Landscape Architecture I	Minor	
Core Courses		
LA 231	Digital Media + Methods Technology	3
LA 271	Landform + Spacemaking Design Studio	6
Electives: Select 10 credi	its of the following:	10
LA 232	Design Technology	
LA 272	Parks & Open Spaces Studio	
LA 322	History of Landscape Architecture	
LA 341	Site Design + Detailing	
LA 342	Site Development and Detailing II	
LA 441	Site Development and Detailing III	
Total Credits		34
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Landscape mana	gement Option - 32 Credits	
Code	Title	Credits
ACCT 102	Fundamentals of Accounting	3
MGMT 320	Foundations of Management	3
PLSC 341	Landscape Bidding, Contracting and Operations	2
PLSC 370	Landscape Management	3
PLSC 465	Advanced Landscape Plants	3
PLSC 468	Landscape Irrigation Design	2
PLSC 469	Landscape Irrigation Installation and Management	2
PPTH 457	Landscape Plant Pathology	3
Electives: Select 12 cred	its of the following:	12
ENT 431	Principles of Insect Pest Management	
ENTD 001		

Introduction to Entrepreneurship

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SOIL 322	Soil Fertility and Fertilizers	
PLSC 485	Arboriculture Science	
PLSC 480	Advanced Turfgrass Topics	
PLSC 412	Nursery Production and Management	
PLSC 375L	Turfgrass Management Laboratory	
PLSC 375	Turfgrass Management	
PLSC 368	Plant Propagation	
PLSC 323	Principles of Weed Science	
PLSC 296	Field Experience	

Sports & Urban Turfgrass management Option - 33 Credits

Code	Title	Credits
ACCT 102	Fundamentals of Accounting	3
MGMT 320	Foundations of Management	3
PLSC 375	Turfgrass Management	4
& 375L	and Turfgrass Management Laboratory	
PLSC 381	Sports Turf Operations	3
PLSC 468	Landscape Irrigation Design	2
PLSC 469	Landscape Irrigation Installation and Management	2
PPTH 457	Landscape Plant Pathology	3
SOIL 322	Soil Fertility and Fertilizers	3
Electives: Select 10 credits of the fo	llowing:	10
ASM 373	Tractors & Power Units	
ASM 374	Power Units Laboratory	
ENT 431	Principles of Insect Pest Management	
HNES 128	Golf	
PLSC 219	Introduction to Prairie & Community Forestry	
PLSC 296	Field Experience	
PLSC 323	Principles of Weed Science	
PLSC 341	Landscape Bidding, Contracting and Operations	
PLSC 465	Advanced Landscape Plants	
PLSC 480	Advanced Turfgrass Topics	
PLSC 485	Arboriculture Science	
PPTH 455	Plant Disease Management	
SOIL 217	Introduction to Meteorology & Climatology	

Urban Forestry & Parks Option - 33 Credits

Total Credits

Code	Title	Credits
ACCT 102	Fundamentals of Accounting	3
MGMT 320	Foundations of Management	3
PLSC 219	Introduction to Prairie & Community Forestry	2
PLSC 386	Arboriculture Climbing and Rigging Operations	2
PLSC 465	Advanced Landscape Plants	3
PLSC 485	Arboriculture Science	3
PPTH 457	Landscape Plant Pathology	3
Electives: Select 15 credits of the following:		15
ENT 431	Principles of Insect Pest Management	
ENTR 201	Introduction to Entrepreneurship	
GEOG 105	Fundamentals of Geographic Information Systems	
NRM 264	Natural Resource Management Systems	
NRM 401	Urban-Ecosystem Management	

PLSC 469 SOIL 322	Landscape Irrigation Installation and Management Soil Fertility and Fertilizers	
PLSC 468	Landscape Irrigation Design	
PLSC 412	Nursery Production and Management	
PLSC 375L	Turfgrass Management Laboratory	
PLSC 375	Turfgrass Management	
PLSC 370	Landscape Management	
PLSC 368	Plant Propagation	
PLSC 323	Principles of Weed Science	
PLSC 315	Genetics	
PLSC 296	Field Experience	

Minor Requirements

Minor: Horticulture

Required Credits: 17

Minor Requirements

Code	Title	Credits
Required Courses		
PLSC 210	Horticulture Science	3
PLSC 211	Horticulture Science Lab	1
Select two of the following courses	listed below:	5-6
PLSC 355	Woody Landscape Plants	
PLSC 365	Herbaceous Landscape Plants	
PLSC 368	Plant Propagation	
Elective Courses: Select from the fo	llowing:	8-9
PLSC 177	Floral Design I	
PLSC 341	Landscape Bidding, Contracting and Operations	
PLSC 370	Landscape Management	
PLSC 375	Turfgrass Management	
PLSC 375L	Turfgrass Management Laboratory	
PLSC 379	Study Tour Abroad	
PLSC 381	Sports Turf Operations	
PLSC 386	Arboriculture Climbing and Rigging Operations	
PLSC 412	Nursery Production and Management	
PLSC 415	Vegetable Crop Production	
PLSC 416	Fruit Crop Production	
PLSC 422	Greenhouse Production and Management	
PLSC 425	Potato Science	
PLSC 465	Advanced Landscape Plants	
PLSC 468	Landscape Irrigation Design	
PLSC 469	Landscape Irrigation Installation and Management	
PLSC 484	Plant Tissue Culture and Biotechnology	
PLSC 485	Arboriculture Science	
ENT 350	General Entomology	
PPTH 324	Introductory Plant Pathology	
SOIL 210	Introduction to Soil Science	

Total Credits 17-19

Minor Requirements and Notes

- A minimum of 8 credits must be taken at NDSU.
- Students must earn a minimum 2.00 GPA for the minor requirements.