



Twin Cities Campus

Horticulture M.P.S.

CCAPS Graduate Programs Instruction

College of Continuing and Professional Studies

Link to a [list of faculty](#) for this program.

Contact Information:

College of Continuing and Professional Studies, Master of Professional Studies in Horticulture Program, 20 Ruttan Hall, 1994 Buford Avenue, St. Paul, MN 55108 (612-624-4742; fax: 612-626-2800)

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Website: <https://ccaps.umn.edu/horticulture-masters-degree>

- Program Type: Master's
- Requirements for this program are current for Fall 2019
- Length of program in credits: 30
- This program does not require summer semesters for timely completion.
- Degree: Master of Professional Studies

Along with the program-specific requirements listed below, please read the [General Information](#) section of the catalog website for requirements that apply to all major fields.

The master of professional studies in horticulture is designed to enhance the capacity of those currently working in the horticulture industry and to provide the knowledge base needed by others interested in beginning new careers, starting their own business, or pursuing personal interests in horticulture. The degree provides a solid foundation of contemporary horticultural knowledge, yet is flexible enough to allow individuals to focus on the specific skills they wish to hone.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission

The preferred undergraduate GPA for admittance to the program is 2.80.

To be admitted, students must have a bachelor's degree from an accredited post-secondary US institution or its foreign equivalent.

Other requirements to be completed before admission:

Evidence of knowledge of current, introductory, college-level concepts of algebra, chemistry, biology, botany, or plant propagation is required for admission to the program. Prerequisite coursework may be completed at the University of Minnesota or at other educational institutions subject to transfer review. In all cases, documentation of completed, equivalent coursework combined with professional experience will be considered for application toward fulfillment of the prerequisites for admission to the M.P.S. in Horticulture. A minimum grade of C will be the standard for admission for all prerequisite coursework. Undergraduate prerequisite coursework must come from the following areas: algebra, chemistry, biology, botany, or plant propagation. Please refer to the program website for further details.

Special Application Requirements:

The application package must include official transcripts of all baccalaureate and post-baccalaureate work, a current resume, two letters of reference, a written statement of purpose (no more than two pages) which addresses pertinent aspects of the student's background and academic qualifications as related to admission to the program and demonstrates a strong interest in horticultural science including documentation of any relevant experiences in the field of horticulture. Application deadlines are in spring for fall semester admission, and in fall for spring semester admission. Refer to the program website for further details.

International applicants must submit score(s) from one of the following tests:

- TOEFL
 - Internet Based - Total Score: 84
 - Internet Based - Writing Score: 21
 - Internet Based - Reading Score: 19
 - Paper Based - Total Score: 563
- IELTS
 - Total Score: 6.5
 - Reading Score: 6.5
 - Writing Score: 6.5



- MELAB
- Final score: 84

Key to [test abbreviations](#)(TOEFL, IELTS, MELAB).

For an online application or for more information about graduate education admissions, see the [General Information](#) section of the catalog website.

Program Requirements

Plan C: Plan C requires 30 major credits and up to null credits outside the major. There is no final exam. A capstone project is required.

Capstone Project: See department for more details.

This program may not be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 2.8 is required for students to remain in good standing.

Students who have not completed relevant introductory coursework in soils, plant pathology, and entomology, either during or subsequent to completion of their bachelor's degree, may be required to complete courses in these areas as part of their M.P.S. degree requirements in consultation with the M.P.S. in Horticulture Director of Graduate Studies. These courses are not prerequisites for admission. Depending on the specific courses included in the student's program, some additional coursework may also be required over and above the 30 graduate credits required for the degree.

All prerequisites associated with courses included in the student's course program must be completed as part of the student's degree requirements, unless exempted in writing by the instructor for the course and approved by the student's advisor and the program director of graduate studies (DGS) prior to taking the course.

Excluding the capstone course, a maximum of 3 credits taken S/N may be applied toward the minimum requirements for the degree.

The student's course program must be approved by the DGS and M.P.S. Steering Committee.

Only coursework for which the student has earned a grade of B- or better will be counted toward the minimum of 30 semester credits required for the degree.

Horticulture Coursework (15 credits)

15 credits of Horticulture (HORT) courses are required. A maximum of 9 credits total at the 4xxx level may be applied to the program in consultation with student's advisor. A maximum of 3 credits of HORT 5090 Directed Studies may be used.

Take 15 or more credit(s) from the following:

- HORT 4xxx
- HORT 5xxx
- [HORT 6003](#) - Masters of Professional Studies in Horticulture Professional Experience Program: Internship (1.0 - 3.0 cr)
- [HORT 6011](#) - Plant Propagation (4.0 cr)
- HORT 8xxx

Related Fields (12 credits)

Select at least 12 credits, such as the following, from related fields coursework offered across the University. Other courses can be selected in consultation with the advisor. A maximum of 9 total credits at the 4xxx level, in consultation with the advisor, can be applied to program requirements.

Take 12 or more credit(s) from the following:

- [AGRO 5321](#) - Ecology of Agricultural Systems (3.0 cr)
- [APS 5103](#) - Integration of Sustainable Agriculture Concepts (3.0 cr)
- [APS 5101](#) - Ecological Design for Horticulture (3.0 cr)
- [APS 5102](#) - Garden Design: Theory and Application (2.0 cr)
- [ENT 5011](#) - Insect Structure and Function (4.0 cr)
- [ENT 5021](#) - Insect Biodiversity and Evolution (4.0 cr)
- [ENT 5051](#) - Scientific Illustration of Insects (3.0 cr)
- ENT 5081 (*Inactive*) (3.0 cr)
- [ENT 5121](#) - Applied Experimental Design (4.0 cr)
- [ENT 5341](#) - Biological Control of Insects and Weeds (3.0 cr)
- [ENT 4361](#) - Aquatic Insects (3.0 cr)
- HORT 4xxx
- HORT 5xxx
- [PLPA 5103](#) - Plant-Microbe Interactions (3.0 cr)



- [PLPA 5202](#) - Field Plant Pathology (2.0 cr)
- [PLPA 5203](#) - Introduction to Fungal Biology (3.0 cr)
- [PLPA 5300](#) - Current Topics in Molecular Plant Pathology (1.0 cr)
- [PLPA 5301](#) - Large Scale Omic Data in Plant Biology (3.0 cr)
- [PLPA 5444](#) - Ecology, Epidemiology, and Evolutionary Biology of Plant-Microbe Interactions (3.0 cr)
- [PLPA 5480](#) - Principles of Plant Pathology (3.0 cr)
- [PLPA 5660](#) - Plant Disease Resistance and Applications (3.0 cr)
- [PLPA 8005](#) - Supervised Classroom or Extension Teaching Experience (1.0 - 2.0 cr)
- [PLPA 8103](#) - Plant-Microbe Interactions (3.0 cr)
- SOIL 4xxx
- SOIL 5xxx
- [HORT 6011](#) - Plant Propagation (4.0 cr)
- HORT 8xxx

Capstone: HORT 6002 (3 credits)

Intended as a capstone experience that integrates the knowledge gained from coursework, personal research, and the student's academic and professional experiences. Enrollment is limited to students who have completed 18 or more credit hours. Students should register for 3 credits.

[HORT 6002](#) - Problem Solving in Horticulture (2.0 - 3.0 cr)