



# HORTICULTURE

The B.S. in Horticulture is a career-oriented program that combines science-based education, liberal arts education, and technical training. All horticulture students are introduced to botany, woody plants, entomology, plant pathology, and soil science as part of the program requirements. These courses together with liberal arts courses and program specific courses prepare students for careers in the Green Industry. We offer one of only two baccalaureate degrees in Horticulture in the entire state and the only one in the northern half of Minnesota.

*Some golden nuggets to consider*

## HORTICULTURE PRODUCTION UNIVERSITY GREENHOUSES

The Horticulture Greenhouses include 4 double poly production houses and all equipment necessary to produce commercial crops.



## CAREER PATHS

- Landscape: designer, contractor, or installer
- Nursery manager
- Hardscape specialist or supplier
- Nursery or Garden Center manager
- Parks manager
- Vegetable production manager
- Floriculture production manager
- Plant broker, buyer
- Floral designer, florist
- Wholesale grower, propagator, manager
- Extension educator
- Horticultural specialist
- Plant breeder
- ...or go on to graduate school

## CAMPUS GARDEN

The goal of the UMC campus garden is to provide fresh vegetables to campus food services for use in the student dining areas. Tomatoes, peppers, carrots, onions, sweet corn, cucumbers, squash, potatoes, watermelon, honeydew, and cantaloupe grown for student consumption on campus! In 2019 over 3,000 pounds of produce were provided. UMC students can take advantage of an internship opportunity to learn how to grow vegetables as a summer job.

## PROGRAM FEATURES

Horticulture students schedule, grow, and sell specialty commercial crops, poinsettias, annual bedding & vegetable plants. They are completely responsible for all aspects of these crops. This type of "real-world" scenario prepares UMC Horticulture graduates with a true representation of their future career.



**REAL. HANDS-ON. READY.**

*We prepare our students so they're 'industry ready.'*

# PROGRAM REQUIREMENTS & CURRICULUM

## PROGRAM REQUIREMENTS: 34 CREDITS

- AGRO 3230 - Introduction to Plant Pathology (3.0 cr)
- BIOL 2022 - General Botany (3.0 cr)
- HORT 1010 - Introduction to Horticulture (3.0 cr)
- HORT 1021 - Woody Plant Materials (4.0 cr)
- NATR 3899 - Pre-Internship Seminar (0.5 cr)
- NATR 3900 - Internship (0.5-4.0 cr)
- NATR 3901 - Post-Internship Seminar (0.5 cr)
- NATR 4652 - Seminar (1.0 cr)
- SOIL 1293 - Soil Science (3.0 cr)
- SOIL 3414 - Soil Fertility and Plant Nutrition (4.0 cr)
- SPAN 1104 - Beginning Spanish I (4.0 cr)
- COMM 3008 - Business Writing (3.0 cr)
  - or COMM 3431 - Persuasion (3.0 cr)
  - or WRIT 3303 - Writing in Your Profession (3.0 cr)
- AGRO 2573 - Entomology (3.0 cr)
  - or NATR 2573 - Entomology (3.0 cr)



## LIBERAL EDUCATION REQUIREMENTS: 40 CREDITS

- BIOL 1009 - General Biology (4.0 cr)
- CHEM 1001 - Introductory Chemistry (4.0 cr)
- COMP 1011 - Composition I (3.0 cr)
- COMP 1013 - Composition II (3.0 cr)
- SPCH 1101 - Public Speaking (3.0 cr)
- MATH 1031 - College Algebra (3.0 cr)
  - or MATH 1150 - Elementary Statistics (3.0 cr)
- AGECE 2310 - Agribusiness Financial Records (3.0 cr)



## ENVIRONMENTAL LANDSCAPING EMPHASIS: 22 CREDITS

- HORT 3030 - Landscape Design (4.0 cr)
- HORT 3031 - Herbaceous Perennial Plant Materials (2.0 cr)
- HORT 3034 - Commercial Floriculture Crops-Spring (4.0 cr)
- HORT 3036 - Plant Propagation (4.0 cr)
- HORT 3040 - Landscape Installation and Maintenance (3.0 cr)
- TURF 1072 - Principles of Turf Management (3.0 cr)
- TURF 3077 - Turf and Landscape Irrigation Design and Installation (2.0 cr)



## PRODUCTION HORTICULTURE EMPHASIS: 23 CREDITS

- HORT 1091 - Indoor Flowering and Foliage Plants (2.0 cr)
- HORT 3030 - Landscape Design (4.0 cr)
- HORT 3031 - Herbaceous Perennial Plant Materials (2.0 cr)
- HORT 3033 - Commercial Floriculture Crops-Fall (4.0 cr)
- HORT 3034 - Commercial Floriculture Crops-Spring (4.0 cr)
- HORT 3036 - Plant Propagation (4.0 cr)
- NATR 3364 - Plant Taxonomy (3.0 cr)

## OPEN ELECTIVES

- Students must take enough open elective credits to meet the 120 credit graduation requirement.

*Contact us today!*

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