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...

**BERGLAND LABORATORY & GREENHOUSES**
The Bergland Laboratory houses state-of-the-art labs, greenhouses, and growth chambers. The Horticulture Greenhouses include 4 double poly production houses and all equipment necessary to produce commercial crops.

**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 2016 over 4,000 pounds of produce and 1,500 ears of sweet corn were provided. The garden reduces waste by selling extra produce at the Crookston Farmer’s Market, which helps the garden be more sustainable in its function. UMC students take advantage of internship opportunities from Sodexo and NWROC to learn how to grow vegetables as a summer job. Currently, UMC students to allow for a more streamlined processing of fresh vegetables are building a wash station adjacent to the original garden plot.

**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

**PROGRAM FEATURES**
Horticulture students schedule, grow, and sell specialty commercial crops, such as poinsettias, lilies, 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.
# 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
- **BIOL 1009 - General Biology [BIOL SCI, PEOPLE/ENV]** (4.0 cr)
- **CHEM 1001 - Introductory Chemistry [PHYS SCI]** (4.0 cr)
- **COMP 1011 - Composition I [COMMUNICAT]** (3.0 cr)
- **COMP 1013 - Composition II [COMMUNICAT]** (3.0 cr)
- **SPCH 1101 - Public Speaking [COMMUNICAT]** (3.0 cr)
- **MATH 1031 - College Algebra [MATH THINK]** (3.0 cr)
or **MATH 1150 - Elementary Statistics [MATH THINK]** (3.0 cr).  
- **AGEC 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 electives credits to meet the 120 credit graduation requirement.

## CONTACT US TODAY!
(218) 281-8569 | umcinfo@umn.edu | www.umcrockston.edu/hort

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