



# AGRONOMY

The Agronomy major at UMN Crookston places great importance on the essentials of career building. Hands-on learning offered through state-of-the-art laboratories and access to crop and soil research is enhanced by the 1600 acres of land located in close proximity to the campus. Graduates can find themselves working in local, state, and federal government agencies; farm and range management; and seed, fertilizer, chemical, and pesticide industries. See how this highly technical field prepares students for a challenging career in many areas.

*Some golden nuggets to consider*

## MAJOR EMPHASIS AREAS

- Crop Production: has an agricultural business component that allows students to develop their marketing and farm business management skills.
- Agronomic Science: allows students to build a thorough understanding of crop science with a concentration in areas such as ag chemicals, fertilizers, integrated pest management, & seed conditioning and technology.



**STARTING SALARIES**  
**\$35,000-55,000**

## CAREER PATHS

- Seed companies
- Agronomy Retailers
- Crop Consulting
- USDA
- State Departments of Agriculture
- Extension
- Grad school- small %. Programs: Masters of Agronomy, Crop Science and Plantology

## THE UMC ADVANTAGE

- Bergland Laboratory houses state-of-the-art equipment for scientific inquiry.
- Agronomy graduates have a job placement rate exceeding 93%.
- UMC offers access to world-class teaching, hands-on learning, and research resources—all in a smaller, more personal campus setting that's very much like a private school.

**\*Only Collegiate FFA Chapter in MN\***

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

# PROGRAM REQUIREMENTS & CURRICULUM

## AGRONOMY CORE REQUIREMENTS: 51 CREDITS

- AGRO 1030 - Crop and Weed Identification (3.0 cr)
- AGRO 1183 - Field Crops: Production Principles (3.0 cr)
- AGRO 1540 - Seed Conditioning and Technology (4.0 cr)
- AGRO 2573 - Entomology (3.0 cr)
- AGRO 2640 - Applied Agriculture Chemicals (3.0 cr)
- AGRO 2840 - Grain and Seed Evaluation (4.0 cr)
- AGRO 3023 - Plant Breeding and Genetics (4.0 cr)
- AGRO 3130 - Forages (3.0 cr)
- AGRO 3230 - Introduction to Plant Pathology (3.0 cr)
- AGRO 3444 - Crop Production (4.0 cr)
- AGRO 3630 - Integrated Crop Management (Capstone) (3.0 cr)
- BIOL 2022 - General Botany (3.0 cr) OR
- BIOL 2022 Plant Anatomy and Physiology (3.0 cr)
- GNAG 3899 - Pre-Internship Seminar (0.5 cr)
- GNAG 3900 - Internship (0.5-3.0 cr)
- GNAG 3901 - Post Internship Seminar (0.5 cr)
- GNAG 4652 - Senior Seminar (1.0 cr)
- SOIL 1293 - Soil Science (3.0 cr)
- SOIL 3414 - Soil Fertility and Plant Nutrition (4.0 cr)

## TECHNOLOGY REQUIREMENTS

- CA 1020 - Spreadsheet Applications (3.0 cr)

## CROP PRODUCTION REQUIREMENTS

- AGECE 2310 - Agribusiness Financial Records (3.0 cr)
- AGECE 3540 - Farm Business Management (3.0 cr)
- AGECE 4740 - Grain and Livestock Marketing (3.0 cr)
- SWM 3224 - Soil and Water Conservation (4.0 cr)



## LIBERAL EDUCATION REQUIREMENTS

A minimum of 40 liberal education credits are required. Students must complete the 10 goal areas of the Minnesota Transfer Curriculum with the following specific liberal education courses required:

- 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)

## AGRONOMIC SCIENCE REQUIREMENTS: 13-14 CREDITS

- AGRO 3030 - Research Techniques in Agriculture and Natural Resources (3.0 cr)
- AGRO 3640 - Weed Science (3.0 cr)
- BIOL 3131 - Plant Physiology (3.0 cr) or
- NATR 3374 - Ecology (4.0 cr) or
- BIOL 3022 - Genetics (3.0)
- CHEM 1401 - Elementary Bioorganic Chemistry [PHYS SCI, PEOPLE/ENV] (4.0 cr)

*Contact us today!*

(218) 281-8569 | [umcinfo@umn.edu](mailto:umcinfo@umn.edu) | [www.umcrookston.edu/agronomy](http://www.umcrookston.edu/agronomy)

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