LEARNING OUTCOMES: CROP SCIENCES, MS

Learning Outcomes for the Master of Science in Crop Sciences (on campus & online)

**Thesis**

1. Students will be able to read, understand, knowledgeably discuss and summarize in writing the primary scientific literature of their particular disciplinary research area (bioinformatics and statistics, crop genetic improvement, crop production, plant protection, sustainable food systems, and water quality and environmental systems).
2. Students will assume responsibility and ownership in research project development and execution.
3. Students will acquire professional scientific writing and communication skills.
4. Students will develop the capacity to communicate and collaborate across interdisciplinary boundaries.
5. Students will develop the interpersonal skills to be competitive for career opportunities in plant sciences and agriculture.

**Non-Thesis**

1. Students will be able to read, understand, knowledgeably discuss and summarize in writing the primary scientific literature of their particular disciplinary research area (bioinformatics and statistics, crop genetic improvement, crop production, plant protection, sustainable food systems, and water quality and environmental systems).
2. Students will acquire professional scientific writing and communication skills.
3. Students will develop the capacity to communicate and collaborate across interdisciplinary boundaries.
4. Students will develop the interpersonal skills to be competitive for career opportunities in plant sciences and agriculture.

**Online**

1. Students will be able to evaluate crop research methods critically and significantly contribute in the research community.
2. Students will be able to apply principles of crop sciences to determine agronomic problems and formulate and implement practical management.
3. Students will be able to describe and critically review concepts and practices associated with agriculture and the environment.
4. Students will be able to critically assess scientific papers. Students will be able to synthesize concepts to solve complex scientific problems.

Information listed in this catalog is current as of 03/2020