

AGRICULTURAL AND ENVIRONMENTAL PLANT SCIENCE

Learning Outcomes

Master of Science (M.S.)

1. **KNOW:** Students will be able to explain key concepts within the field of Agricultural and Environmental Plant Science and their specific area of thesis research.
2. **APPLY/CREATE:** Students will review the scientific literature, design plant science field and lab-based experiments to develop and test hypotheses associated with their research project.
3. **COMMUNICATE:** Students will perform professional and original writing, and convey scientific hypotheses and results to the professional and the local communities.
4. **THINK:** Students will critically think and analyze work done by others in their field and specialty area of research.
5. **PROFESSIONAL PRACTICE:** Students will be able to effectively communicate scientific hypotheses and research data to professional and lay audiences in oral and written formats.

Doctor of Philosophy (Ph.D.)

1. **KNOW:** Students will be able to explain and apply the key concepts within the field of Agricultural and Environmental Plant Science and their specific area of thesis research.
2. **APPLY/CREATE:** Students will apply current knowledge, be able to explain key concepts within the field of Agricultural and Environmental Plant Science and their specific area of thesis research, while focusing on scientific methods, statistical data analysis, and results to advance understanding in their field.
3. **COMMUNICATE:** Students will communicate fundamental knowledge, scientific ideas, and research findings through original writing as well as formal oral presentations to diverse audiences.
4. **THINK:** Students will conceptualize and critically evaluate the work of others in their field to enhance their knowledge while integrating their specific research area.
5. **PROFESSIONAL PRACTICE:** Students will be able to effectively communicate scientific hypotheses and research data to professional and lay audiences in oral and written formats.