

MS Plant, Soil, and Environmental Sciences and MS Horticulture Learning Goals

Approved by the Graduate Faculty members of the MS PSE and MS Horticulture programs.

February 18, 2022

MS Plant, Soil, and Environmental Sciences and MS Horticulture Mission Statement:

The mission of the MS Plant, Soil, and Environmental Sciences and MS Horticulture degree programs of the University of Maine is to produce engaged scholars and professionals by promoting excellence in all aspects of the graduate student experience. These MS degree programs provide advanced graduate education and professional training through innovative teaching, mentorship, and research in established and emerging areas of sustainable crop and horticultural production, ecology, and environmental sciences. This rigorous education prepares students to contribute meaningfully to the advancement of the state of Maine, the nation and the global community.

Students successfully completing either of these MS programs will be able to:

Understand, interpret, and augment the scientific knowledge base by:

- Contributing research, scholarship, and informed practice to our developing understanding of agricultural science, sustainability science, ecology, and environmental science;
 - Students will produce research and scholarship that contributes to our developing understanding of sustainable agriculture and horticulture.
 - Students will apply informed practice to addressing problems in agricultural science, sustainability science, ecology, and environmental science.
- Committing to expanding the knowledge sphere through engagement with professional societies and other knowledge-transfer modalities.

Share disciplinary expertise openly, effectively, and accurately by:

- Students will accurately distill and disseminate complex expertise to help manage and address problems facing their specific disciplines, sustainability science, ecology, and environmental science;
- Students will respond with principled and knowledge-based recommendations to emerging issues that confront state of Maine, the nation and the global community.

Demonstrate responsible and ethical practice by:

- Students will examine sustainability and potential long-term implications when addressing agricultural, horticultural, and environmental issues.