

AGRICULTURAL SOLUTIONS (AGSO)

AGSO 215 Regenerative Grazing and Pasture Management Credits: 2

Students in this course will benefit from both experiential and theoretical learning opportunities as they examine the integration of crop and soil science, pasturage, plant breeding, climatology and integrated pest management disciplines. This course is an exciting chance to learn the principles of regenerative agriculture, and apply these ideas in a real-world pasture setting. Students will learn to evaluate and develop crop management strategies that make the most efficient use of natural resources such as manure, solar radiation, water, and soil, as well as other external inputs utilized for field crop management.

Spring: All Years

Course Outline (<https://eservices.minnstate.edu/registration/rest/rcld/0075/curricld/00221512/>)

AGSO 315 Plant and Soil Nutrition Credits: 3

This course builds on the foundation of crop science and soil science to further investigate the relationship between soil and crop plants. Students will review basic concepts of plant nutrition and soil characteristics in order for students to identify connections and the symbiotic benefits of each component. Topics covered also include soil and plant uptake, deficiencies, toxicities, causes and remedies, as well as plant and soil analysis methods.

Pre-Requisite : AGRO 132

Spring: All Years

Course Outline (<https://eservices.minnstate.edu/registration/rest/rcld/0075/curricld/00206777/>)

AGSO 499 Internship Field Experience Credits: 2

The opportunity to pursue an internship is designed to supplement course materials with actual related work experience. Students are expected to integrate disciplinary knowledge into a real world setting. The student will submit weekly reports on work assignments as well as a report at the conclusion of the internship. This course is required for all Agricultural Solutions majors. Students are responsible for finding internship opportunities.

Fall: Department Discretion **Spring:** Department Discretion **Summer** Department Discretion

Course Outline (<https://eservices.minnstate.edu/registration/rest/rcld/0075/curricld/00177218/>)