

**Department: Agriculture, Agribusiness, and Environmental Science**

**Program: Agriculture Science – Plant and Soil Science: Agronomy, Horticulture, Soils (PLSS)**

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)
Core Skill: Critical Thinking & Problem Solving Skills	Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions. Considering the relative costs and benefits of potential actions to choose the most appropriate one. Using logic and reasoning to identify the strengths and weaknesses of an integrated pest management program, by determining alternative solutions, conclusions or approaches to problems	PLSS 3318 General Entomology; PLSS 3331 Turf and Urban Plants; PLSS 3334 Weed Management in Crops; PLSS 4312 Integrated Pest Management; PLSS 4328 Intro Plant Pathology; PLSS 3321 Sustainable Soil Water Manag;
Core Skill: Social Responsibility	Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action. Time management	AGRI 2330 Intro to Systems Thinking; AGRI 2380 Emerging Leaders in Ag; AGRI 3330 Decision Tools for Ag Systems
Core Skill: Prepare to engage in life-long learning	Understanding the implications of new information for both current and future problem-solving and decision-making. Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.	PLSS 3318 General Entomology; PLSS 3331 Turf and Urban Plants; PLSS 3334 Weed Management in Crops; PLSS 4312 Integrated Pest Management; PLSS 4327 Soil Water Movement; PLSS 4328 Intro Plant Pathology;
Discipline-based Skill: Master the depth of knowledge required for a degree	Provide information or recommendations to producers or other landowners regarding ways in which they can best use land, promote plant growth, or avoid or correct problems such as erosion. Develop environmentally safe methods or products for controlling or eliminating weeds, crop diseases, or insect pests	PLSS 1407 General Plant Sciences; PLSS 3410 Principles of Soil Science; PLSS 4329 Soil Health and Productivity; PLSS 3325 Field Crop Production; PLSS 3344 Vegetable Crop Production; PLSS 3410 Principles of Soil Science