

Department: Agriculture, Agribusiness, and Environmental Science

Program: Agriculture Science – Agriculture Science and Technology with Teaching Certification (AGRI)

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	Students employ strategic thinking skills to evaluate the program effectiveness of a given public high school Agriculture Science/FFA program, or an AgriLife Extension program and develop strategies to maintain or improve that setting.	AGSC 3363 Prog Plan in Ag Sci and Tech, AGSC 3367 Intro to Agric Sci and Tech, AGSC 4666 Student Teach in Ag Sci and Tec
Core Skill: System Thinking Skills	Students within the program(s) acquire the thinking skills with semester based assignments that might require them to ascertain what constitutes an award winning year long, and even up to five-year long, record keeping program that would be considered as a potential state winning, and even potentially national winning application. They might also be induced into thinking how specific modifications might better benefit changes made to agricultural facilities, like classrooms, or school farms, or local/county livestock show barns and grounds. They develop research projects and studies that explore both contemporary and visionary agriculture programs and how continued improvements can be justified.	AGSC 3363 Prog Plan in Ag Sci and Tech, AGSC 4361 Meth Matls Tech Clrm Mgt AGSC 1451 Intro to Ag Systems AGSC 1352 Welding AGSC 3352 Ag Power & Machinery
Core Skill: Business Management Skills	Students attain management skills that allow for the classroom programs and other external agricultural based youth programs might train for future careers and administrative & organization management concepts that would allow them to transverse into these professional occupations upon successful completion of schooling and advanced trainings.	AGSC 3363 Program Planning in Ag. AGSC 3367 Intro to Ag Science & Tech AGSC 4361 Meth Matls Tech Clrm Mgt (WI) 4361, AGSC 4666 Studnt Teach in Ag Sci and Tec
Core Skill: Natural Resource Management	Students strive to acquire management skills in record book keeping, award application completions, classroom teaching & management concepts utilizing in-house skills learned from mentoring supervisors, and from learning to manage farm operations, financing, and personnel recruitment & selection.	AGBU 3371 Farm Management AGSC 4353 Ag Building Requirements AGBU 2301 Prin of Agribusiness Mgmt AGBU 3310 Food and Agric Product Retail
Core Skill: Collaboration and Teamwork	Students within the Agricultural Science program must learn how to collaborate with other team like-minded members in competition based classroom learning experiences such as leadership and various judging/evaluation team concepts. These simulated experiences build skills that assist them in learning to deal with a variety of individuals and problem solving abilities.	AGSC 3367 Intro to Agric Sci and Tech AGSC 4666 Studnt Teach in Ag Sci and Tec AGRI 2330 Intro to Systems Thinking AGRI 2380 Emerging Leaders in Ag GRI 3330 Decision Tools for Ag Systems
Discipline-based Skill: Master the depth of knowledge required for a degree	Prepare and deliver lectures on topics such as crop production, plant animal science, and horticulture. Prepare course materials, such as syllabi, homework assignments, and handouts. Advise students on academic and vocational curricula and on career issues. Initiate, facilitate, and moderate classroom discussions.	AGSC 1352 Welding AGSC 3352 Ag Power & Machinery AGSC 3363 Prog Plan in Ag Sci and Tech, AGSC 3367 Intro to Agric Sci and Tech, AGSC 4666 Student Teach in Ag Sci and Tec PLSS 140