

College of Agriculture - Student Learning Outcomes

Degree Program Table

Program Outcomes	Undergraduate	Graduate
Agriculture, MS (All Concentrations)		View Outcomes
Agriculture Business	View Outcomes	
Agriculture Education	View Outcomes	
GIS and Precision Agriculture	View Outcomes	
Animal Science	View Outcomes	
Plant and Soil Science	View Outcomes	

Graduate

Agriculture, MS (All Concentrations)

Program-Level

- Students will demonstrate depth in a concentration area to support their professional goals.
- Students will demonstrate both verbal and written communication skills.
- Students will develop advanced skills in critical thinking and analysis applied to solve relevant problems.

Undergraduate

Agriculture Business

Program-Level

- Apply economic, management, marketing, and financial tools to make decisions in agricultural firms
- Communicate written and verbal forms on public and current issues affecting agricultural firms
- Interpret financial statements of agricultural firms

Core Agriculture

- Students will be able to demonstrate knowledge of fundamental concepts in agriculture, including agriculture business/economics, animal science, plant and soil science, and statistics.
Specific to Intro to AG Bus: Students are expected to demonstrate knowledge of the structure & organization of agribusiness and the principles of microeconomic theory.
 - Students will gain appreciation for the agriculture profession by participating in professional development activities.
 - Students will demonstrate written and verbal skills for effective communication in agricultural sciences.
 - Students will demonstrate critical thinking skills to analyze and synthesize relevant problems in agriculture.
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Agriculture Education

Program-Level

- **Content Knowledge:** The student with an emphasis in Agriculture Education will demonstrate knowledge of the central concepts, tools of inquiry, and discipline-related constructs, which will create meaningful learning experiences leading to mastery of the content.
- **Service:** The student with an emphasis in Agriculture Education will participate in a variety of planned events to include county, district and state fairs, ASU Petting Zoo, secondary FFA Events, community events, educational outreach, and professional development events and activities to develop a broader perspective and appreciation of community involvement, and develop critical communication and interpersonal skills.
- **Application of Professional Education Content:** The student with an emphasis in Agriculture Education will demonstrate leadership and communication skills in the integration of disciplinary content and pedagogical concepts and use differing perspectives to develop instructional strategies to engage learners in critical thinking, creativity, and collaborative problem solving related to authentic local and global agricultural issues.

Agriculture Core

- Students will be able to demonstrate knowledge of fundamental concepts in agriculture, including agriculture business/economics, animal science, plant and soil science, and statistics.
Specific to Intro to AG Bus: Students are expected to demonstrate knowledge of the structure & organization of agribusiness and the principles of microeconomic theory.
 - Students will gain appreciation for the agriculture profession by participating in professional development activities.
 - Students will demonstrate written and verbal skills for effective communication in agricultural sciences.
 - Students will demonstrate critical thinking skills to analyze and synthesize relevant problems in agriculture.
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GIS and Precision Agriculture

Program-Level

- Students will be able to assess a set of spatial phenomena relevant to agriculture or other human-environment interactions.
 - Students will be able to choose an effective set of decision tools for a current agricultural or environmental problem.
 - Students will be able to design a solution to an existing problem related to agriculture, the environment, or natural resources.
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Animal Science

Program-Level

- Students will demonstrate knowledge of fundamental concepts in animal science.
 - Students will apply their knowledge to solve problems in an animal science specialty area to support their professional goals.
 - Students will investigate current animal science topics and effectively evaluate (critique, defend, validate) their significance as it pertains to the animal agricultural industry.
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Plant and Soil Science

Program-Level

- Students will demonstrate mastery of fundamental concepts in plant and soil sciences.

- Students will demonstrate depth in an emphasis area to support their professional goals

College Core

- Students will be able to demonstrate knowledge of fundamental concepts in agriculture, including agriculture business/economics, animal science, plant and soil science, and statistics.
Specific to Intro to AG Bus: Students are expected to demonstrate knowledge of the structure & organization of agribusiness and the principles of microeconomic theory.
- Students will gain appreciation for the agriculture profession by participating in professional development activities.
- Students will demonstrate written and verbal skills for effective communication in agricultural sciences.
- Students will demonstrate critical thinking skills to analyze and synthesize relevant problems in agriculture.

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