

VT 4290 – AGRICULTURE SCIENCE AND TECHNOLOGY II

This class will build on what students learned in Ag Science I with additional instruction in plant science, soils, forestry, FFA, leadership, landscaping, horticulture and Ag mechanics. Students will continue developing their supervised Agriculture Experience program (SAEP).

Essential Learning Objectives

Students will:

- Demonstrate those qualities, attributes and skills necessary to succeed in, or further prepare for, a chosen career while effectively contributing to society.
- Examine the importance of health, safety and environmental management systems in organizations and their importance to performance and regulatory compliance.
- Use tools, equipment, machinery and technology appropriate to work within areas related to AFNR.
- Apply scientific principles to environmental service systems.
- Demonstrate techniques used to protect natural resources.
- Apply knowledge of plant classification, plant anatomy and plant physiology to the production and management of plants.
- Prepare and implement a plant management plan that addresses the influence of environmental factors, nutrients and soil on plant growth.
- Propagate, culture, and harvest plants.
- Plan, build, and maintain agricultural structures.
- Demonstrate the procedures for making welds using a shielded metal arc welder.

Agriculture Science and Technology II Standards and Competency Profile:

<https://dese.mo.gov/sites/default/files/AgSci2-Standards.pdf>

<https://dese.mo.gov/sites/default/files/aged-instructional-framework-AgScience-II.pdf>

Updated: Spring 2020