

Introduction to Agriculture - AGRI 101

Tech Prep Articulation Competencies

This course will provide a comprehensive picture of the basic components and an appreciation of the complex agricultural systems that exist today. This course should align with all area secondary agriculture programs and is integral to the success of those students developing agricultural education pathways.

Course Content Objectives and Competencies:

1. Recall the significant historical events that have shaped agriculture into a major world leading industry of today.
2. Describe the three broad areas of the agricultural industry. Describe the basic components and give examples of the complex agricultural systems that exist today.
3. Describe the role and challenges of world agriculture and the Global Food Supply Systems. Identify some significant world population trends
4. Compare and contrast world agricultural practices. Define sustainable agricultural goals.
5. Describe the advances made by agriculture and how agricultural research has benefited the consumer and improved living conditions throughout the U.S. and world.
6. Identify and describe the basic components of the many types of complex agricultural production divisions i.e.; Horticultural, Grain and Forage, Forest, Animal, Dairy and Milk, Poultry and Aquaculture.
7. Describe the concept and applications of biotechnology and genetic engineering in modern agriculture. Provide examples of the scientific practices used to increase food production in modern agriculture.
8. Demonstrate an understanding of the scientific processes and how it applies to improvements and changes involved in today's modern agriculture.
9. Describe the relationship between water and soil in our environment and provide examples of the agricultural practices for conserving these important resources.

10. Describe and identify the basic components of the many types of agribusiness and management divisions i.e.; Food and Fiber Processing, Distribution, Transportation, Trade and Marketing, Food Safety, Communications, Manufacturing, Service, Research and Education.
11. Describe and define the components of an integrated agricultural system and describe reasons for using a systems approach in agricultural management today.
12. Define various agricultural occupations and careers and the major divisions; compare the scope of job opportunities of on -farm and off-farm occupations. List those activities, in school, home and community that will help prepare you for a career in agriculture.
13. Describe the major agricultural career occupations and titles within the professional and non-professional fields of agriculture. Compare and contrast, education, training, skills, opportunities and income levels.
14. Identify the general tasks, responsibilities and duties required within the various fields of agriculture.
15. Survey a variety of agricultural careers opportunities and prepare an education plan for entering a rewarding career in agriculture.
16. Develop a systemic series of flexible educational steps for securing the education and training necessary to be successful in agriculture.