AGRI 101 Articulation Competencies

*Introduction to Agriculture (3 Credits)*

**Introduction to modern agricultural industries, history, management philosophies, and challenges. Course topics include: food crop production, sustainable resource management, global food demands, and economics. Students will be provided an opportunity to research and explore their career interests and create a strategy for their professional future in agriculture.**

*Upon completion of this course, successful students will score 80% or better on the following competencies to receive WVC college credits.*

Student Learning Outcomes:

**CATEGORIES**

1. **Problem Solving**: A. Critical Thinking 3. **Social Interaction**: A.Collaboration

B. Creative Thinking B. Ethical Conduct

C. Quantitative Reasoning C.Professional Conduct

D. Qualitative Reasoning D. Cultural Diversity

1. **Communication**: A. Oral Expression 4. **Inquiry: A.** Information Literacy

B. Written Expression B. Research

C. Artistic Expression C. Documentation

Course Competencies Checklist:

* Apply basic terminology and describe the elements of food and fiber production, manufacturing and distribution of agricultural commodities in the U.S. (1A,B,C,D, 2A,B,C, 3A,B,C,D, 4A,B,C)
* Describe the role and challenges of world agriculture and the Global Food Supply systems. (1A,B,C,D, 2A,B, 3A,B,C,D, 4A,B,C)
* Describe the advances made by agriculture and how agricultural research has benefited the consumer and improved living conditions throughout the world. (1A,B,C,D, 2A,B, 3A,B,C,D, 4A,B,C)
* Discuss the definition and components of an integrated agricultural system and describe reasons for using a systems approach in agricultural management. (1A,B,C,D, 2A,B, 3A,B,C,D, 4A,B,C)
* Demonstrate an understanding of the scientific process and how it applies to improvements and changes involved in today’s modern agriculture. (1A,B,C,D, 2A,B, 3A,B,C,D, 4A,B,C)
* Describe the basic components of the many types of agricultural management systems, i.e. food, fiber, distribution, recreation and natural resource conservation. (1A,B,C,D, 2A,B, 3A,B,C,D, 4A,B,C)
* Survey a variety of agricultural career opportunities and prepare an education plan (portfolio) for entering a rewarding career in agriculture or continuing studies at the next level. (1A,B,C,D, 2A,B, 3A,B,C,D, 4A,B,C)

Core Topics:

* History & Challenges of Modern Agriculture
* Agriculture (Food Producing) Industries
* Plant (Food Crops) Industry & Sciences
* Animal Industries & Sciences
* Agriculture Mechanization
* Agr-Business (Economics, Marketing & World Trade)
* Sustainable Agriculture Resource Management Theories
* Environmental Impacts, Biotechnology, and Safety
* Natural Resource Industries & Sciences
* Global Agriculture (Food Supplies & Demands)
* Career Pathways & Occupations in Agriculture

Program Outcomes:

Students who complete the ATS in Sustainable Agriculture and Resource Systems will be able to:

* Demonstrate skills and knowledge in the fundamentals of:
* general agriculture production practices
* tree fruit production practices in North Central Washington
* general horticulture practices
* sustainable and organic agriculture production
* agri-business management
* natural resources
* viticulture principles and practices in Washington
* Demonstrate the ability to:
* think critically (analyze, synthesize, evaluate and apply, problem solve, reason quantitatively and qualitatively) in workplace environments.
* act responsibly as an individual and as a member of a team or group in a workplace environment.
* Acquire the training and education to seek employment or advance in current employment in agriculture related fields.
* Develop a foundation to continue their studies in agriculture or related fields.