

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 B. Creative Thinking C. Quantitative Reasoning D. Qualitative Reasoning	2. Communication: A. Oral Expression B. Written Expression C. Artistic Expression	3. Social Interaction: A. Collaboration B. Ethical Conduct C. Professional Conduct D. Cultural Diversity	4. Inquiry: A. Information Literacy B. Research 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)

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.

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