PLANT SYSTEMS, 01.0100.30		
1.0	DEMONSTRATE LABORATORY PROCEDURES AND SAFETY PRACTICES	
1.1	Demonstrate safe practices in a home, classroom, laboratory, and work situation	
1.2	Identify safety precautions that involve working with hazardous biological materials	
1.3	Examine the impact of safety compliance on business and employees	
1.4	Interpret parts of an MSDS sheet	
1.5	Interpret recommended personal protection equipment (PPE)	
1.6	Safely operate and maintain equipment	
2.0	DESCRIBE CELL BIOLOGY STRUCTURES AND PROCESSES	
2.1	Explore the cells, tissues, and organs	
2.2	Recognize the structure and function of DNA	
2.3	Explain the process of creating proteins from DNA	
2.4	Explain the role of the cell and cellular processes (i.e. , mitosis, meiosis, osmosis)	
2.5	Examine the molecular basis of heredity and resulting genetic diversity	
2.6	Specify methods and requirements by which an organism's genetic code can be altered using biotechnology techniques	
2.7	Determine how scientists continue to investigate and critically analyze DNA cloning	
2.8	Outline the scientific principles and processes involved in biological evolution	
3.0	DESCRIBE BASIC PRINCIPLES OF NUTRITION	
3.1	Determine the essential nutrients for organisms and describe their importance	
3.2	Explore the nutritional needs of humans, animals and/or plants	
3.3	Explain the process of food digestion and nutrient absorption	
3.4	Identify common nutrition problems	
4.0	DESCRIBE SCIENTIFIC CLASSIFICATION	
4.1	Investigate the seven levels of classifications (Kingdom, Division, Class, Order, Family, Genus, Species)	
4.2	Investigate the five kingdoms (Bacteria, Protists, Fungi, Plants, Animals)	
4.3	Create and utilize a dichotomous key	
5.0	DESCRIBE PRINCIPLES OF PLANT GROWTH AND PRODUCTION	
5.1	Identify parts of plants and their functions	
5.2	Explore methods of classifying plants	
5.3	Recognize the physiological needs of plants	
5.4	Explain plant sexual and asexual reproduction	
5.5	Demonstrate plant propagation	
6.0	DESCRIBE PRINCIPLES OF ANIMAL GROWTH AND PRODUCTION	
6.1	Describe the epidermis system	
6.2	Describe the musculoskeletal system	
6.3	Describe the nervous system	
6.4	Describe the circulatory system	
6.5	Describe the respiratory system	
6.6	Describe the digestive system	
6.7	Describe the urinary system	
6.8	Describe the reproductive system	
6.8 6.9 6.10	Describe the reproductive system  Describe the endocrine system  Recognize the physiological needs of living animals	

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11.4 Evaluate potential environmental damage of agriculture practices	11.2	Evaluate business dealings with friends, family, or competitors
	11.3	Evaluate pricing and sales incentives
11.5 Discuss bioethical issues	11.4	Evaluate potential environmental damage of agriculture practices
	11.5	Discuss bioethical issues

12.0	ANALYZE AGRICULTURAL LITERACY TOPICS
12.1	Discuss the development of agriculture in America
12.1	Examine Arizona agriculture and its advancements
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12.3 12.4	Discuss misconceptions in agriculture  Differentiate between standard energing precedures on commercial, small scale, and organic production techniques
	Differentiate between standard operating procedures on commercial, small scale, and organic production techniques
12.5	Describe the facets of agriculture
12.6	Discuss how regulatory agencies affect agriculture
42.0	INIVESTIGATE APPROVED PRACTICES OF DISEASE CONTROL
13.0	INVESTIGATE APPROVED PRACTICES OF DISEASE CONTROL
13.1	Differentiate between common diseases
13.2	Assess symptoms of common diseases and parasites
13.3	Evaluate economic impact of diseases on production
13.4	Compare methods by which diseases are spread
13.5	Evaluate the most economical and environmentally safe disease control and prevention methods  Conduct on investigation on an infected field/ergonism
13.6	Conduct an investigation on an infected field/organism
13.7	Propose corrective actions needed to treat an infected field/organism
440	INVESTIGATE APPROVED NUTRITIONAL PRACTICES
14.0	INVESTIGATE APPROVED NUTRITIONAL PRACTICES
14.1	Research common nutrient deficiency symptoms and treatment options
14.2	Recommend nutrient and quantity requirements
14.3	Evaluate diagnosis, treatment, and prevention of nutrient deficiency
14.4	Inspect supplemental and additive ration/fertilizer composition
14.5	Prepare samples for testing and diagnosis
14.6	Test methods of fertilizer/nutrient application
14.7	Examine the relationship between nutrient practices and yield amounts
45.0	ANALYZE TUE INTERACTION AMONG ENVIRONMENTAL AND NATURAL DECOURCES SCIENCES
15.0 15.1	ANALYZE THE INTERACTION AMONG ENVIRONMENTAL AND NATURAL RESOURCES SCIENCES  Demonstrate how dynamic processes such as weathering, erosion, and sedimentation relate to redistribution of materials in the earth
	system
15.2	Investigate soil morphology
15.3	Illustrate land-use and water-use planning
15.4	Explain factors that impact current and future water quantity and quality including surface, ground, and local water issues
15.5	Compare fossil fuels and biofuels and how they are affecting the environment
15.6	Describe how human activities and natural causes can lead to pollution
15.7	Evaluate the effectiveness of conservation practices on environmental quality and biodiversity
16.0	INVESTIGATE IMPACTS OF INTEGRATED PEST MANAGEMENT OPTIONS
16.1	Classify common pests
16.2	Evaluate economic impact of pests on production
16.3	Predict methods by which pests spread
16.4	Recognize signs of pest damage
16.5	Identify thresholds created for specific pests
16.6	Select and propose the most economical and environmentally safe pest control method
16.7	Identify GMO crops and their role in the agriculture industry
16.8	Read and interpret pesticide labels
16.9	Apply pesticide effectively
17.0	DEMONSTRATE AGRISCIENCE MECHANIC APPLICATIONS
	owledge and skill standards and related assessment items were undated August 2011. Assessment items were niloted Fall 2011

17.1	Demonstrate personal and group safety
17.2	Develop a bill of materials for a specific task
17.3	Develop a structural plan for a specific task
17.4	Demonstrate appropriate wood fabrication techniques
17.5	Demonstrate appropriate metal fabrication techniques
17.6	Demonstrate appropriate plumbing fabrication techniques used in agriculture
17.7	Demonstrate appropriate safe connection of electrical components including motors, timers, and values in both high- and low-voltage circuits used in agriculture
17.8	Demonstrate appropriate concrete and masonry practices commonly used in agriculture
17.9	Demonstrate operation and maintenance of appropriate mechanical systems used in agriculture
17.10	Demonstrate appropriate land measurement and construction techniques commonly used in agriculture with technology
17.11	Demonstrate principles and applications of various engines and machinery used in agriculture
18.0	Apply Business Practices in the Agricultural Industry
18.1	Determine entrepreneurship opportunities in agriculture
18.2	Develop a marketing plan
18.3	Research a product and demonstrate approved sales techniques
18.4	Apply record keeping principles and applications
18.5	Analyze tax laws and regulations
18.6	Discuss personal and business accounting practices
18.7	Explain economic principles in agriculture
18.8	Utilize technology to accomplish agribusiness objectives
18.9	Research investment opportunities
18.10	Design an agricultural business plan
18.11	Compare projected and actual budgets to calculate business decisions
18.12	Review risk management strategies such as insurance, hedging, and business decisions
19.0	DEMONSTRATE AN UNDERSTANDING OF THE ROLE OF PLANT SYSTEMS IN THE AGRICULTURAL INDUSTRY
19.1	Apply knowledge of practices and procedures in Plant Systems
19.2	Apply knowledge of practices and procedures in work-based learning
19.3	Apply knowledge of practices and procedures in leadership development