



Goodheart-Willcox Publisher

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Correlation of <i>Principles of Agriculture, Food, and Natural Resources</i> ©2017 to the Mississippi 2012 Agriculture and Natural Resources Frameworks for Fundamentals of Agricultural and Natural Resources – Course Code 991102		
Course Description: Fundamentals of Agricultural and Natural Resources is designed to introduce the student to fundamental concepts and principles of the modern agricultural and natural resources industry. Emphasis is placed on career and leadership skills and basic principles of plant, animal, and soil science.		
COMPETENCY		CORRELATING PAGES
Unit 1 – Introduction to ANR		
1	Examine the nature of the agriculture and natural resources industry.	Chapter 1 Agriculture and Society (pp. 2–47)
2	Examine the relationships between the pure sciences, agriculture, and agriscience.	Chapter 5 Agriculture Science (pp. 208–255)
3	Apply standard agricultural and natural resources safety practices.	Chapter 4 Agricultural Safety (pp. 144–207) Lesson 16.1 Outdoor Recreation (pp. 1001–1014)
Unit 2 – Leadership and Human Relations		
1	Develop life and career skills for success in the 21st century.	Chapter 2 Leadership in Agriculture (pp. 48–95) Chapter 3 Agriculture as a Career (pp. 96–143)
2	Explore the role of the FFA in promoting leadership, personal development, and human relations skills.	Chapter 2 Leadership in Agriculture (pp. 48–95) Chapter 3 Agriculture as a Career (pp. 96–143)
3	Examine the concept of leadership.	Lesson 2.1 Building Leadership Skills (pp. 50–63)
4	Describe the role of work ethics and values in establishing and building a successful career.	Lesson 3.2 Your Career in Agriculture (pp. 117–139)
Unit 3 – Experiential Learning (SAE)		
1	Plan and implement an experiential learning program.	Lesson 3.1 Experiential Learning through Agriculture (SAE) (pp. 98–116)
2	Maintain records and documentation of experiential learning activities, projects, and enterprises.	Lesson 3.1 Experiential Learning through Agriculture (SAE) (pp. 98–116)
Unit 4 – Science of Animals		
1	Explore the animal agriculture industry and enterprises.	Chapter 10 Large Animal Production (pp. 506–571) Chapter 11 Small Animal Production (pp. 572–647) Chapter 12 Other Animal Production (pp. 648–733)

2	Investigate the anatomy and physiology of animals.	Lesson 9.4 Animal Feeds and Feeding (pp. 480–498) Chapter 10 Large Animal Production (pp. 506–571) Chapter 11 Small Animal Production (pp. 572–647) Chapter 12 Other Animal Production (pp. 648–733)
3	Describe important elements of digestion and nutrition in animals.	Lesson 9.4 Animal Feeds and Feeding (pp. 480–498)
4	Examine the role of genetics and breeding in animal production.	Lesson 5.3 Biotechnology in Agriculture (pp. 232–249) Chapter 10 Large Animal Production (pp. 506–571)
Unit 5 – Science of Plants		
1	Explore the anatomy and physiology of a plant.	Lesson 13.1 Plant Anatomy and Physiology (pp. 736–756)
2	Investigate common methods of plant reproduction.	Lesson 13.1 Plant Anatomy and Physiology (pp. 736–756)
3	Apply classification methods to plants.	Lesson 13.1 Plant Anatomy and Physiology (pp. 736–756)
4	Apply principles of plant nutrition.	Lesson 13.1 Plant Anatomy and Physiology (pp. 736–756)
5	Explore basic concepts of pest management to include insect damage, weed damage, and diseases.	Lesson 13.1 Plant Anatomy and Physiology (pp. 736–756) Lesson 13.2 Cereal Grain Production (pp. 757–772) Lesson 13.3 Oil Crop Production (pp. 773–785) Lesson 13.4 Fiber Crop Production (pp. 786–796) Lesson 13.5 Fruit and Vegetable Production (pp. 797–812) Lesson 13.6 Ornamental Horticulture (pp. 813–830)