

**Alignment - Florida Department of Education
Written Correlation to Student Performance Standards 2019-2020**

Course Title: Agritechnology 1
Course Number: 8106820
Text Title: *Principles of Agriculture, Food, and Natural Resources* ©2017
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CTE Standards and Benchmarks	Lessons Where Standard/Benchmark is Directly Addressed in Major Tool
Explore the scope of the agriscience industry--The student will be able to:	
01.01 Investigate career opportunities in agriscience industries.	119 – 120
01.02 Describe training requirements for entry and advancement in agriscience careers.	129 – 130
Determine proper animal health and nutrition--The student will be able to:	
01.03 Demonstrate proper methods to clean and disinfect animal equipment and facilities.	186 – 187, 472 – 476
01.04 Explain proper disposal of animal waste with regards to sanitation, economics, and environmental implications	188 – 190 , 263 – 264 , 268 , 269
01.05 Describe a livestock animals digestive system.	491 – 496
01.06 Describe nutritional requirements of animals.	491 – 496 481 – 487
Identify components of reproduction--The student will be able to:	
01.07 Examine livestock and poultry reproductive anatomy.	243 – 246
01.08 Explain the reproductive cycles of commercially important animals.	510 – 511, 429, 540, 578 – 580, 604, 629 – 630
01.09 Compare and select appropriate breeding methods for different agricultural enterprises.	510 – 511, 529, 540, 578 – 580, 604, 629 – 630
01.10 Describe approved care for newborn animals.	510, 529, 540, 579, 580, 604, 629
Identify procedures in animal production	
01.11 Compare & contrast desirable characteristics of breeding and market animals.	516 – 522, 533 – 535, 555 – 562, 588 – 598, 612 – 613, 622 – 628, 635 – 637
01.12 Evaluate wholesale cuts of beef, pork, lamb, and poultry.	514 – 516, 583 – 585, 610 – 611, 622

CTE Standards and Benchmarks	Lessons Where Standard/Benchmark is Directly Addressed in Major Tool
01.13 Describe methods of animal identification.	516 – 522, 533 – 555, 552 – 562, 588 – 598, 612 – 613, 622 – 623, 635 – 637
01.14 Describe methods of restraining, loading, handling, and transporting animals safely.	186 – 187
Develop procedures for exhibiting animals--The student will be able to:	
01.15 Demonstrate the procedures for preparing, maintaining, and handling livestock.	100, 110 – 111, 512 – 513
01.16 Compare and contrast appropriate livestock evaluation criteria.	512 – 513
01.17 Prepare appropriate registrations, shipping and health certificates required for exhibiting or marketing animals.	512 – 513
01.18 Demonstrate appropriate grooming and showmanship skills.	512 – 513
Compare, select, and use plant production systems--The student will be able to:	
01.19 Compare different plant production systems. (Seed, cutting, air layer and tissue culture).	763 – 766, 776 – 777
01.20 Propagate, transplant and grow plants.	763 – 766, 776 – 777
01.21 Select and prepare a site and/or a seedbed for planting.	763 – 766, 776 – 777
01.22 Identify methods of pruning plants to achieve desired growth and to maintain health.	763 – 766, 776 – 777
Investigate proper methods to fertilize plants and crops--The student will be able to:	
01.23 Interpret information on a fertilizer label.	763 – 766, 776 – 777-778, 793, 799
01.24 Compare sources and forms of nutrients.	486 – 487, 965, 969
01.25 Determine methods of applying fertilizer materials.	766 – 767, 777 – 778, 799
01.26 Collect soil sample to determine nutrient levels.	940 – 944
01.27 Test for pH and soluble salts.	940 – 944
Operate, maintain, and service facilities, tools, and equipment--The student will be able to:	
01.28 Use and maintain hand tools and power equipment (e.g., power saws, welders).	348 – 350

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01.29 Describe maintenance and service of small engines.	381
01.30 Examine science principles as applied in selected mechanical applications (e.g. levers, pulleys, hydraulics, and internal combustion).	221 – 222
Apply principles of agribusiness finance--The student will be able to:	
01.31 Identify components of balance sheets and income statements.	412 – 414
01.32 Identify major sources of credit for agribusiness.	410 – 411
01.33 Complete a business loan application.	410 – 411
01.34 Maintain and interpret agribusiness financial records including depreciation, inventory, and budgets.	407 – 415
Evaluate the importance of the food and fiber system to understand the impact on global economy.—The student will be able to:	
01.35 Assess the agricultural impact upon the US gross national product and the total global economy.	7 – 8
01.36 Investigate local, state, and national regulatory laws, industry regulations, and legislation for agricultural businesses.	25
01.37 Identify and describe the primary government agencies involved with agriculture.	149, 470-472
01.38 Research new and emerging technologies and their impact on the economy.	35 – 37, 476
01.39 Describe the value of the food and agribusiness industry.	103 – 105, 118, 402
Examine the scope of career opportunities in and the importance of agriculture to the economy.	
01.40 Define and explore agriculture and agribusinesses and their role in the economy.	7 – 8, 654 – 656
01.41 Evaluate and explore the agribusiness career opportunities in agriculture.	119
01.42 Compare how key organizational structures and processes affect organizational performance and the quality of products and services.	403 – 415