

# Agriculture, Food and Natural Resources Programs

**Four units are required for Completer Status.**

**Agricultural Mechanics and Technology**----- **010205**

**Required Courses:** Agricultural Mechanics and Technology OR Biosystems Mechanics and Engineering serves as a prerequisite for all courses in this pathway, with the exception of Agricultural Science and Technology and Agricultural and Biosystems Science and Agricultural Science and Technology for the Workplace.

Agricultural Science and Technology	5624	1
Agricultural and Biosystems Science	5691	1
Agricultural Science and Technology for the Workplace*	5620	2
AgriBusiness and Marketing	5600	1
Agricultural Power Mechanics*	5610	1
Agricultural Structural Mechanics*	5611	1
Agricultural Mechanics and Technology*	5660	1
Biosystems Mechanics and Engineering*	5692	1
Soil and Water Conservation	5627	1
Equipment Operations and Maintenance*	5621	1
Agricultural Mechanics and Technology for the Workplace 1 Agricultural Mechanics and Technology for the Workplace 2	5604 5605	2
Agriculture, Food, and Natural Resources, work-based credit: <a href="http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/">http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/</a>	5690	

**Biosystems Engineering Technology**----- **140301**

**Required Courses:** Courses must be taught in the following sequence: Course 5691, Course 5692, Course 5695, Course 5696 OR Course 5693, 5694

Agricultural and Biosystems Science*	5691	1
Biosystems Technology 3*	5695	1
Biosystems Technology 4*	5696	1
Biosystems Technology Career Development I*	5693	2
Biosystems Technology Career Development II*	5694	2
Biosystems Mechanics and Engineering*	5692	1
Agriculture, Food, and Natural Resources, work-based credit: <a href="http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/">http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/</a>	5690	

**Environmental and Natural Resources Management ----- 030101**

**Required Courses:** Environmental and Natural Resources Management serves as a prerequisite for all courses in this pathway, with the exception of Agricultural Science and Technology and Agricultural and Biosystems Science and Agricultural Science and Technology for the Workplace.

Agricultural Science and Technology	5624	1
Agricultural and Biosystems Science	5691	1
Agricultural Science and Technology for the Workplace	5620	2
Agricultural Mechanics and Technology	5660	1
Aquaculture	5663	1
Biosystems Mechanics and Engineering	5692	1
Environmental and Natural Resources Management*	5626	1
Soil and Water Conservation*	5627	1
Soil and Soilless Research	5630	1
Forestry*	5642	1
Wildlife Management*	5674	1
Outdoor Recreation*	5602	1
Equipment Operations and Maintenance	5621	1
Environmental and Natural Resources Management for the Workplace I*	5628	2
Environmental and Natural Resources Management for the Workplace II*	5629	
Agriculture, Food, and Natural Resources, work-based credit: <a href="http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/">http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/</a>	5690	

**Horticulture ----- 010601**

**Required Courses:** Introduction to Horticulture serves as a prerequisite for all courses in this pathway, with the exception of Agricultural Science and Technology and Agricultural and Biosystems Science and Agricultural Science and Technology for the Workplace.

Agricultural Science and Technology	5624	1
Agricultural and Biosystems Science	5691	1
Agricultural Science and Technology for the Workplace	5620	2
AgriBusiness and Marketing	5600	1
Agricultural Mechanics and Technology	5660	1
Biosystems Mechanics and Engineering	5692	1
Equipment Operations and Maintenance	5621	1
Floriculture*	5634	1
Golf Course Technology*	5667	1
Introduction to Horticulture*	5650	1
Landscape Technology*	5670	1
Nursery, Greenhouse, and Garden Center Technology*	5672	1
Turf and Lawn Management*	5654	1
Soil and Soilless Research	5630	1
Sports Turf Management*	5655	1
Horticulture for the Workplace I*	5652	2
Horticulture for the Workplace II*	5653	
Agriculture, Food, and Natural Resources, work-based credit: <a href="http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/">http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/</a>	5690	

**Plant and Animal Systems**----- 011101

**Required Courses:** Agricultural Science and Technology OR Agricultural and Biosystems Science OR Agricultural Science and Technology for the Workplace serves as a prerequisite for all courses in this pathway

Agricultural Science and Technology*	5624	1
Agricultural and Biosystems Science*	5691	1
Agricultural Science and Technology for the Workplace*	5620	2
AgriBusiness and Marketing	5600	1
Agricultural Crop Production and Management*	5614	1
Agricultural Mechanics and Technology	5660	1
Aquaculture	5663	1
Biosystems Mechanics and Engineering	5692	1
Equine Science*	5679	1
Food Processing*	5657	1
Cattle Production*	5646	1
Farm Animal Production*	5647	1
Small Animal Care*	5612	1
Introduction to Veterinary Science*	5613	1
Soil and Water Conservation	5627	1
Soil and Soilless Research	5630	1
Animal Science*	5603	1
Equipment Operations and Maintenance	5621	1
Animal Science for the Workplace I*	5608	2
Animal Science for the Workplace II*	5609	
Agriculture, Food, and Natural Resources, work-based credit: <a href="http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/">http://ed.sc.gov/instruction/career-and-technology-education/career-guidance/work-based-learning/work-based-learning-guide/</a>	5690	

\* Core courses for the pathway. While all courses listed are accepted within the completer track for the pathway, these courses are considered part of the core curriculum for the pathway. It is highly recommended that two or more should be included in the completer curriculum.

NOTE: Courses denoted as “for the workplace” or “Career Development” are two unit courses. If the curriculum is to include both two unit courses and single unit courses, it is suggested that you contact your program coordinator for Agricultural Education for guidance, to guard against duplication of standards taught. Program coordinator contact information can be found here:  
<https://www.clemson.edu/extension/scaged/contact/index.html>

**Middle School**-----

Introduction to Agriculture – 6 <sup>th</sup> Grade	1856	
Introduction to Agriculture – 7 <sup>th</sup> Grade	2856	
Introduction to Agriculture – 8 <sup>th</sup> Grade	2856	