# Scope & Sequence

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| Course Name: Agricultural Laboratory and Field Experience**TSDS PEIMS Code:** 13002410 | **Course Credit:** 1.0**Course Requirements:** Recommended for Grades 11-12. **Corequisites:** Any course in the Agriculture, Food, and Natural Resources Career Cluster, excluding Principles of Agriculture, Food, and Natural Resources. |
| **Course Description:** Agricultural Laboratory and Field Experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. This course must be taken concurrently with a corequisite course from the Agriculture, Food, and Natural Resources Career Cluster and may not be taken as a stand-alone course. |
| **NOTE:** This is a suggested scope and sequence for the course content. This content will work with any textbook or instructional materials. If locally adapted, make sure all TEKS are covered. |
| **Total Number of Periods****Total Number of Minutes****Total Number of Hours** | 175 Periods7,875 Minutes131.25 Hours\* | \*Schedule calculations based on 175/180 calendar days. For 0.5 credit courses, schedule is calculated out of 88/90 days. Scope and sequence allows additional time for guest speakers, student presentations, field trips, remediation, extended learning activities, etc. |
| **Unit Number, Title, and Brief Description** | **# of Class Periods\***(assumes 45-minute periods)Total minutes per unit | **TEKS Covered****130.30. (c) Knowledge and skills** |
| **Unit 1: Standards/Employability Skill**This lab course provides an enhancement opportunity for students to develop additional skills necessary to pursue industry certification and is taken concurrently with a corequisite course from the agriculture, food, and natural resources career cluster. This course is not a stand-alone course. Classroom activities and allotted course time should be modified/adjusted to allow students sufficient time to master the content of both courses. Students will begin the lab course by reviewing and discussing the professional standards and employability skills, including investigating career development and entrepreneurship opportunities in agriculture, food, and natural resources, applying competencies related to resources, information, and interpersonal skills. Students will further develop and demonstrate these skills and attributes throughout the course. In small groups and/or in other classroom activities, students will demonstrate knowledge of personal and occupational health and safety practices in the workplace, identify appropriate work habits, and develop characteristics of good citizenship. Students will demonstrate these skills and attributes by creating and/or participating in diverse classroom and workplace vignettes/scenarios. As a culminating activity for the unit, students will utilize technology to research and pursue appropriate licensing, certification, and credentialing requirements. | 10 periods450 minutes | (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:(A) investigate career development and entrepreneurship opportunities in agriculture, food, and natural resources;(B) apply competencies related to resources, information, and interpersonal skills;(C) practice personal and occupational health and safety practices in the workplace;(D) examine employer expectations and exhibit appropriate work habits;(E) develop good characteristics of citizenship, including advocacy, stewardship, and community leadership; and (F) pursue appropriate licensing, certification, and credentialing requirements. |
| **Unit 2: Research Project**Students will begin the research project by discussing the instructor expectations regarding classroom rules, schedules, and task completion. Students will pick a research project that aligns with a career in agriculture, food, and natural resources. Students will utilize appropriate technology and/or materials to conduct research. Students will effectively use search engines, databases, and other digital electronic tools to locate information, evaluate quality, accuracy, completeness, reliability, and currency of information from any source. As a culminating activity, students will prepare, organize, present, and apply independent research. Students will accept constructive criticism and revise personal views when warranted by valid evidence. | 80 periods3,600 minutes | (2) The student uses technology to research a project. The student is expected to:(A) effectively use search engines, databases, and other digital electronic tools to locate information;(B) evaluate quality, accuracy, completeness, reliability, and currency of information from any source;(C) prepare, organize, present, and apply independent research; and(D) accept constructive criticism and revise personal views when warranted by valid evidence. |
| **Unit 3: Corequisite and Lab Courses**Students will continue to develop a foundation in the classroom activities aligned with their corequisite course assignments in the agriculture, food, and natural resources career cluster. Students will participate in classroom/lab activities and discussions regarding corequisite and lab course requirements and skills, and discuss planning, timelines, strategies, and necessary procedures for successful task/assignment completion by the end of the course. Students will continue to develop and implement personal and interpersonal skills as they participate in classroom/lab activities and tasks. Students will utilize appropriate technology and/or assigned materials to develop mastery of hands-on skills at an industry-accepted standard, and exhibit progress toward achieving industry-recognized documentation of specific expertise in an agriculture, food, and natural resources field or skill. | 75 periods3,375 minutes | (1) The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:(B) apply competencies related to resources, information, and interpersonal skills; (3) The student develops an elevated aptitude for the essential knowledge and skills listed for the corequisite course. The student is expected to:(A) demonstrate deeper understanding of the corequisite course; (B) develop mastery of hands-on skills at an industry-accepted standard; and(C) exhibit progress toward achieving industry-recognized documentation of specific expertise in an agriculture, food, and natural resources field or skill. |
| **Unit 4: Career Development and Leadership Skills**Students will research, explore, and discuss examples and benefits of Career and Technical Student Organizations (CTSO) and/or other extracurricular student activities. Students will then prepare and effectively present brief oral and/or written reports on a CTSO or other extracurricular organization they are willing to join or are already participating in. Students will demonstrate good characteristics of citizenship, including advocacy, stewardship, and community leadership in their discussions and presentations. Students will also discuss their progress toward achieving industry recognized documentation of specific expertise in an agriculture, food, and natural resources field or skill and self-evaluate their mastery of hands-on skills. | 10 periods450 minutes | 1. The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to:

(E) develop good characteristics of citizenship, including advocacy, stewardship, and community leadership.  (3) The student develops an elevated aptitude for the essential knowledge and skills listed for the corequisite course. The student is expected to: (B) develop mastery of hands-on skills at an industry-accepted standard; and(C) exhibit progress toward achieving industry-recognized documentation of specific expertise in an agriculture, food, and natural resources field or skill. |