

WANT TO START USING CASE IN YOUR AGRICULTURAL EDUCATION PROGRAM?



Attend a CASE Institute!

CASE Institutes are 80-hour professional development sessions led by practicing CASE teachers. CASE curriculum is free to those who attend and successfully complete a CASE Institute. Affiliate Universities and Colleges across the United States host CASE Institute sessions each summer. CASE teachers receive free updates of the curriculum and are entitled to many other teacher services free of charge during their career.

For a complete listing of CASE Institutes for the upcoming summer and more information about certification, please visit the CASE website at <http://case4learning.org/professional-development/case-institute.html>.



CASE

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CASE

*Curriculum for Agricultural
Science Education*



Principles of Agricultural Science
Plant



CASE

PROGRAM OF STUDY

Perkins reauthorization recommends program of study for CTE students. One important aspect of program of study pathways is to provide a purposeful and rigorous sequence of courses to build student knowledge and skills. CASE has carefully designed a program of study pathway for plant science that scaffolds student learning within courses and throughout the pathway.

Introduction to
Agriculture,
Food, and
Natural
Resources

Principles of
Agricultural
Science – Plant

Animal and Plant
Biotechnology or
Food Science
and Safety

Agricultural Business,
Research, and
Development
(Capstone)

All CASE pathways begin with the introductory level course and branches into four agriculture, food, and natural resources focus areas. The Plant Systems pathway consists of *Principles of Agricultural Science - Plant* as the foundation level course, progressing to a specialization course in either *Animal and Plant Biotechnology* or *Food Science and Safety*. All CASE pathways cumulate with the capstone course focusing on *Agricultural Business, Research, and Development*.

For more information regarding CASE programs of study, please visit the CASE website at <http://case4learning.org/curriculum/case-pathways.html>

PRINCIPLES OF AGRICULTURAL SCIENCE - PLANT

Principles of Agricultural Science – Plant is a foundational course designed to teach students about the form and function of plant systems. Students are immersed in inquiry-based activity-, project-, and problem-based exercises to teach them about the concepts related to plant science. Teachers are provided detailed instructional procedures to facilitate instruction of lessons heavily aligned with national standards for Agriculture, Science, Mathematics, and English Language Arts.

Areas of study include:

- Mineral Soils
- Soilless Systems
- Anatomy and Physiology
- Taxonomy
- The Growing Environment
- Sexual Reproduction
- Asexual Reproduction
- Pest and Disease Management
- Crop Production and Marketing

