

Want to start using CASE in your agricultural education program?

**Attend a CASE Institute!**



- CASE Institutes are intense professional development led by practicing CASE teachers.
- The CASE curriculum is free to those who successfully complete a CASE Institute.
- Institutes are hosted by affiliated universities and colleges across the United States each summer.
- CASE teachers receive complimentary updates to the curriculum and many other services throughout their careers.
- For a complete listing of upcoming CASE Institutes and certification information, please visit [www.case4learning.org](http://www.case4learning.org) and click on "Professional Development."

**CASE**



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**PRINCIPLES OF AGRICULTURAL  
SCIENCE – PLANT**



**CASE**

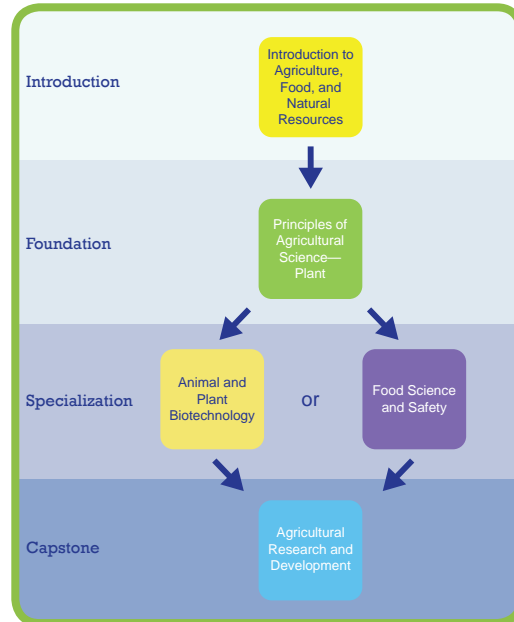
*Curriculum for Agricultural  
Science Education*

# CASE PROGRAM OF STUDY

“Career and Technical Education students should follow a program of study made up of a **purposeful sequence** of **rigorous courses** to build student knowledge and skills.”  
– recommendation in Perkins reauthorization



We have carefully designed a program of study pathway for plant science that scaffolds student learning within courses and throughout the pathway.



## Principles of Agricultural Science — Plant



All CASE pathways begin with the *Introduction to Agriculture, Food, and Natural Resources* course, then branch into four areas which focus on animals, plants, agricultural engineering, and natural resources.

The Plant Systems pathway includes the foundation course *Principles of Agricultural Science — Plant* and progresses to a specialization course in either *Animal and Plant Biotechnology* or *Food Science and Safety*. All CASE pathways culminate with the capstone course *Agricultural Research and Development*.

## Principles of Agricultural Science — Plant

*Principles of Agricultural Science — Plant* is a foundation-level course teaching students the form and function of plant systems. Students experience various plant science concepts through inquiry-based exercises filled with activities, projects, and problems utilizing laboratory and practical experiences.



## Principles of Agricultural Science — Plant

Areas of study include:

- Soils
- Anatomy and Physiology
- Taxonomy
- Growing Environment
- Reproduction
- Pest and Disease Management
- Crop Production and Marketing

**CASE provides teachers hands-on professional development to facilitate instruction.**



We are grateful to **CF Industries** for sponsoring the CASE *Principles of Agricultural Science — Plant* course as a special project through the **National FFA Foundation**.

