



# PRINCIPLES OF AGRICULTURAL SCIENCE—ANIMAL

## Course Description

Agricultural Science - Animal (ASA) introduces students to career opportunities for raising, breeding, and marketing animals.

Students experience hands-on activities related to animal anatomy, physiology, and classification. While enrolled in ASA, students acquire the fundamental skills to feed, handle, and care for animals. Throughout the course, students will apply scientific principles to improving and monitoring animal production.



## Equipping teachers

- Foundation level
- Full year course
- Inquiry and project based instructional practices
- CASE Institute professional development

## Engaging students

- ✓ Apply the scientific method
- ✓ Develop an animal management guide
- ✓ Explore animal science careers and technical skills
- ✓ Demonstrate lab safety and practices
- ✓ Use science, technology, engineering, and math, to solve problems

## Instructional Units

- History and Use of Animals
- Animal Handling and Safety
- Cells and Tissues
- Animal Nutrition
- Animal Reproduction
- Genetics
- Animal Health
- Animal Products, Selection, and Marketing

## Flexibility & Adaptability

CASE provides a comprehensive professional development experience, in addition to a work-life balance so teachers can best educate their students. Course work is adaptable and customizable based on teacher preference to fit all geographies and communities.

“CASE has given me my life back as a busy agricultural instructor and FFA advisor while providing me with curriculum that is rigorous, engaging, and relevant to my students. I can walk away at the end of the day with less stress and still know that my students are prepared for higher education.”

- Alicia Flowers, Missouri



scan or visit [case4learning.org](https://case4learning.org)



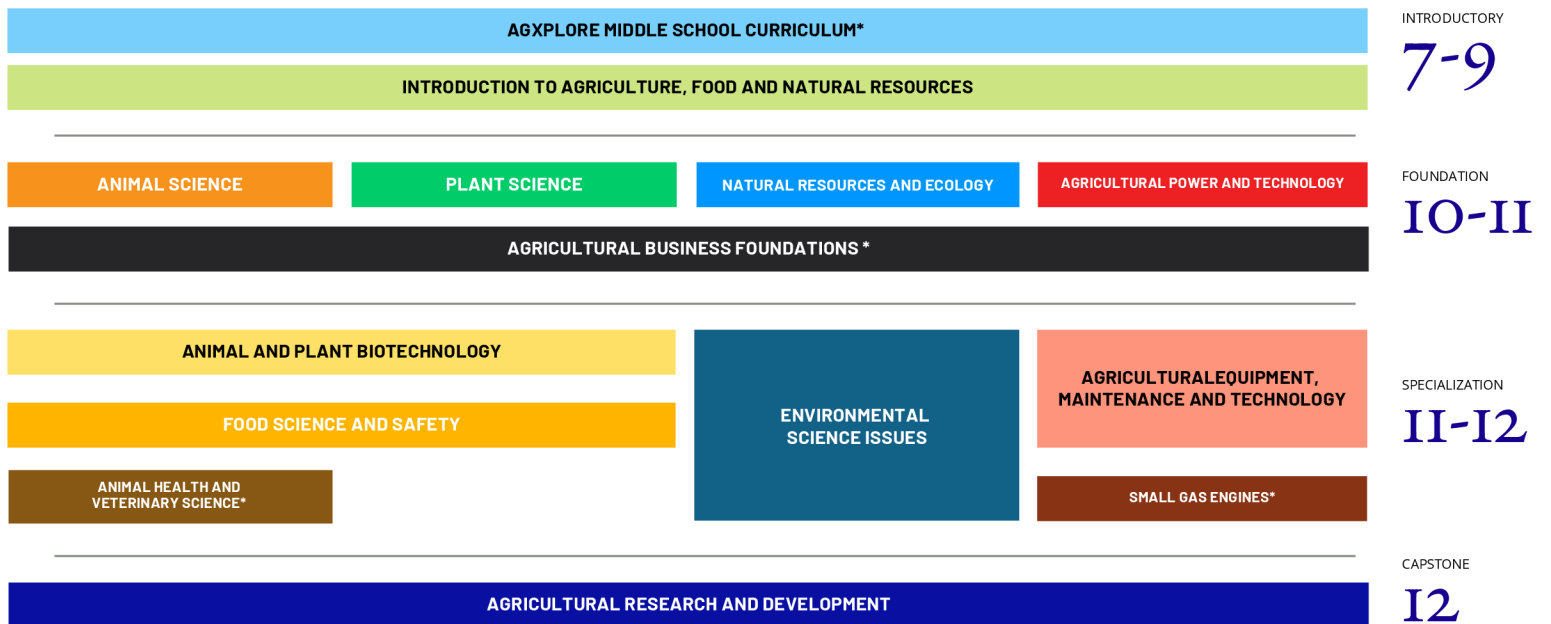
**Equipping Teachers**  
**Engaging Students**



## Purposeful Curriculum

CASE has sequenced courses at four levels that enhance the delivery of agricultural education through inquiry-based learning and technical skills.

## Courses and Instruction Levels



## Mission

To design industry-leading, inquiry-based curriculum and teacher education to create lifelong learners and prepare students for the future of agriculture.

## Standards Aligned

CASE develops curriculum with industry feedback and aligns courses to National Agriculture, Food, & Natural Resources and Career & Technical Education standards.

## Professional Development and Lifetime Certification

CASE 4 Learning enhances agricultural education with inquiry and project-based learning to prepare the next generation of the agricultural workforce through teacher certification and professional development.

### CASE Institutes

Professional development events preparing teachers to implement full-year CASE courses. Institutes provide teachers the content and skills needed to use CASE curricula in their classroom. CASE Institutes range from five to eight days in a hybrid, in-person, or virtual format.

### BriefCASEs \*

Professional development for shortened CASE courses or modules. BriefCASEs range from one to three days.

### Grants & Scholarships

Corporate sponsors and donors throughout the agriculture industry support CASE teachers through funding material implementation grants and professional development scholarships. Teachers are eligible to apply in the fall to fund their programs in the following year.

### Certification

Once the teacher is certified by attending a CASE Institute or BriefCASE, they have lifetime access. There are no subscriptions or renewal fees!



#### In-Person

Teachers attend the entire training at the host site.



#### Virtual

Teachers attend the entire training online. Teachers will receive materials via mail, and are responsible for their lab space.



#### Hybrid

Teachers receive training both virtually and in-person based on the course.