

CASE IN IOWA

Curriculum for Agricultural Science Education



Agricultural Education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems.



Agricultural education uses a three-circle model of instruction which includes classroom and laboratory instruction, leadership development, and experiential learning. The successful integration of each of these three components results in a strong program that produces well-rounded individuals prepared to be leaders in agriculture, business, and industry.

CASE BY THE NUMBERS

	Iowa	National
CASE Certified Teachers	181	1,369
Percentage of Certified Teachers	74.49%	19%
Number of CASE Certifications Held	372	2,248
Number of CASE Lead Teachers	10	70
Number of CASE Master Teachers	3	12

The Governor's STEM Advisory Council and private donors have helped fund Iowa's undergraduate and current agriculture educator CASE courses. **\$2,457,532** contributed from the Iowa Governor's STEM Advisory Council **\$35,200** contributed to CASE from private donors

Course certifications held by Iowa teachers

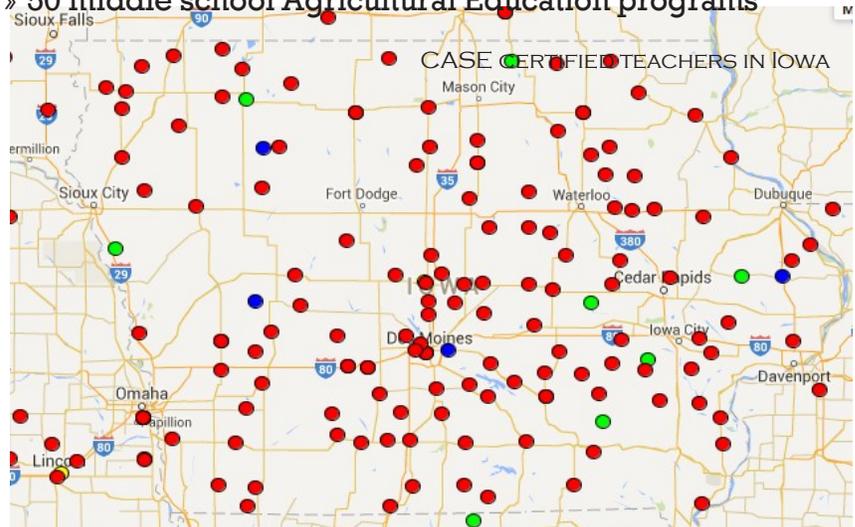
- » Introduction to Agriculture, Food, and Natural Resources
- » Principles of Agricultural Science - Animal
- » Principles of Agricultural Science - Plant
- » Food Science and Safety
- » Natural Resources and Ecology
- » Agricultural Power and Technology

- » Animal and Plant Biotechnology
- » Agricultural Research and Development

Secondary Agricultural Education in Iowa

- » 225 high school Agricultural Education programs
- » 20,000 students in Agricultural Education courses

- » 236 Agricultural Educators
- » 50 middle school Agricultural Education programs



THE CASE PROGRAM

What is it all about?

What is CASE?

Written by agricultural educators for agricultural educators, Curriculum for Agricultural Science Education (CASE) is a STEM program designed to fit the needs of agricultural educators across the nation. CASE enhances classroom instruction on a variety of subjects that are of interest to agriculture students without sacrificing the leadership and SAE instruction component of agricultural education. The CASE program is a sequence of agricultural courses that serve as a model for elevating rigor and relevance of agricultural education. A not-for-profit program, all of the CASE income is invested back into curriculum support, improvements, and professional development.

Who benefits from CASE?

Agricultural educators, students, and the agricultural industry benefit from the CASE program by helping to develop and produce well educated and highly skilled graduates.

CASE Model

CASE is made up of four different areas: curriculum, assessment, certification, and professional development. All of these areas are vital to the success of the CASE program. Each of these four areas give the CASE program validity, by ensuring that teachers are properly equipped and trained, and student learning is clearly accountable.

CASE Vision

The vision of the CASE program is to enhance agricultural education rather than replace traditional curriculum. CASE provides the vehicle to expand the range of influence of agricultural education to non- traditional school districts commonly associated with suburban and urban settings. Regardless of the setting, the intent is to improve the learning experiences for agriculture students by improving teacher performance.



Why is CASE different?

The CASE program is a system of instructional support for the classroom agricultural educator that is unique to these classrooms. Through the CASE program, the agricultural educator is supplied with professional development, peer-mentoring, and external support systems that assist the teacher in every aspect of their classroom. This curriculum provides a balance of science, mathematics, and English language centered on the agricultural subject matter. The CASE program also gives students a chance to participate in inquiry-based activities, projects, and problems. Through all of these areas, CASE provides students motivation towards agricultural subject matter which is enhanced with relevant learning connections by using practical instructional approaches.