

CASE Program Description

Curriculum for Agricultural Science Education (CASE) is an instructional system that provides intense teacher professional development and curriculum that is changing the culture of agriculture programs.

Through its system of professional development, curriculum, assessment and certification, CASE equips teachers to elevate student experiences in the agriculture classroom, and prepares students for success in college and careers emphasizing science, technology, engineering and math.

CASE currently has courses in *Introduction to Agriculture, Food and Natural Resources*, *Principles of Agricultural Science – Animal*, and *Principles of Agricultural Science – Plant*.

Professional Development

The strength of CASE is in the intense and thorough professional development provided to all those who choose to adopt the curriculum. To obtain the CASE curriculum, teachers are required to attend an 80-hour concurrent session CASE Institute. This professional development workshop equips teachers to use the curriculum to its fullest potential by preparing them to lead students through a series of meaningful, sequential activities, problems and projects couched in agriculture subject matter.

CASE provides superior teacher preparation, which creates a better student experience, resulting in more students who successfully complete agriculture programs prepared for success in college and careers in science, technology, engineering and math.

Curriculum

CASE provides a complete curriculum in each of its three courses. This includes lessons that build on each previous lesson coupled with inquiry-based lesson delivery style, leading students to a higher understanding of big-picture science, technology, engineering and math (STEM) concepts. At CASE Institutes, teachers become familiar not only with the curriculum itself, but with delivering lessons using inquiry-based instruction, student-directed learning, and activities, projects and problems (APP).

Assessment

CASE has developed end-of-course assessments in partnership with intelitek that will enable programs to uniformly validate skills and concepts learned through the CASE program of study. The assessments will be delivered online via intelitek's LearnMate

assessment platform. Each includes a variety of question types that appeal to auditory, visual and kinesthetic learners.

These assessments are not only a way for teachers to check overall student comprehension, but a way to collect powerful data that can be used to show the effectiveness of instruction in an agriculture program using CASE. The variety of testing methods used in the assessments means all types of learners will be able to show their understanding of the high-level STEM concepts CASE delivers.

Cost

Because CASE is a program, the curriculum, accompanying assessments, and certification opportunities are only available to teachers who attend and complete a CASE Institute for each course they want to teach. CASE Institutes have a one-time registration fee, usually around \$2500. Other parts of the CASE system, the curriculum, the internal assessments, and the opportunity for certification, are free to those who complete their course's CASE Institute. There will be an additional per-student fee for end-of-course assessments.

Because it is STEM-based, science lab equipment and other specialized equipment is often required for the lessons. Many agriculture programs successfully partner with their school's science department to share resources, or find other sources for supplies and equipment to compliment their budgets.