



NATURAL RESOURCES AND ECOLOGY

Course Description

Natural Resources and Ecology (NRE) introduces students to career opportunities related to the environment and agriculture.

Students experience hands-on activities related to biomes, land use, water quality, stewardship and environmental agencies. While enrolled in NRE, students acquire the basic skills to manage, research, and solve environmental problems. Throughout the course, students will apply scientific principles to managing ecosystems and the environment.



Equipping teachers

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

Engaging students

- ✓ Apply the scientific method
- ✓ Research and study an ecosystem
- ✓ Explore natural resource careers and technical skills
- ✓ Demonstrate lab safety and practices
- ✓ Use science, technology, engineering, and math to solve problems

Instructional Units

- Conservation, Preservation, Exploitation
- Mother Earth
- Water Works
- Lighter than Air
- Earth's Energy
- Flora and Fauna
- Farming, Forestry, and Ferrous
- We the People
- Past, Present and Future

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.

“ The CASE Institute for Natural Resources and Ecology is a game changer! This is what I've been working towards on my own, but the difference is that this curriculum has gone through peer review and actually works. ”

- Annelisa Cohen, California



scan or visit case4learning.org

This course is correlated to G-W Natural Resources Systems text



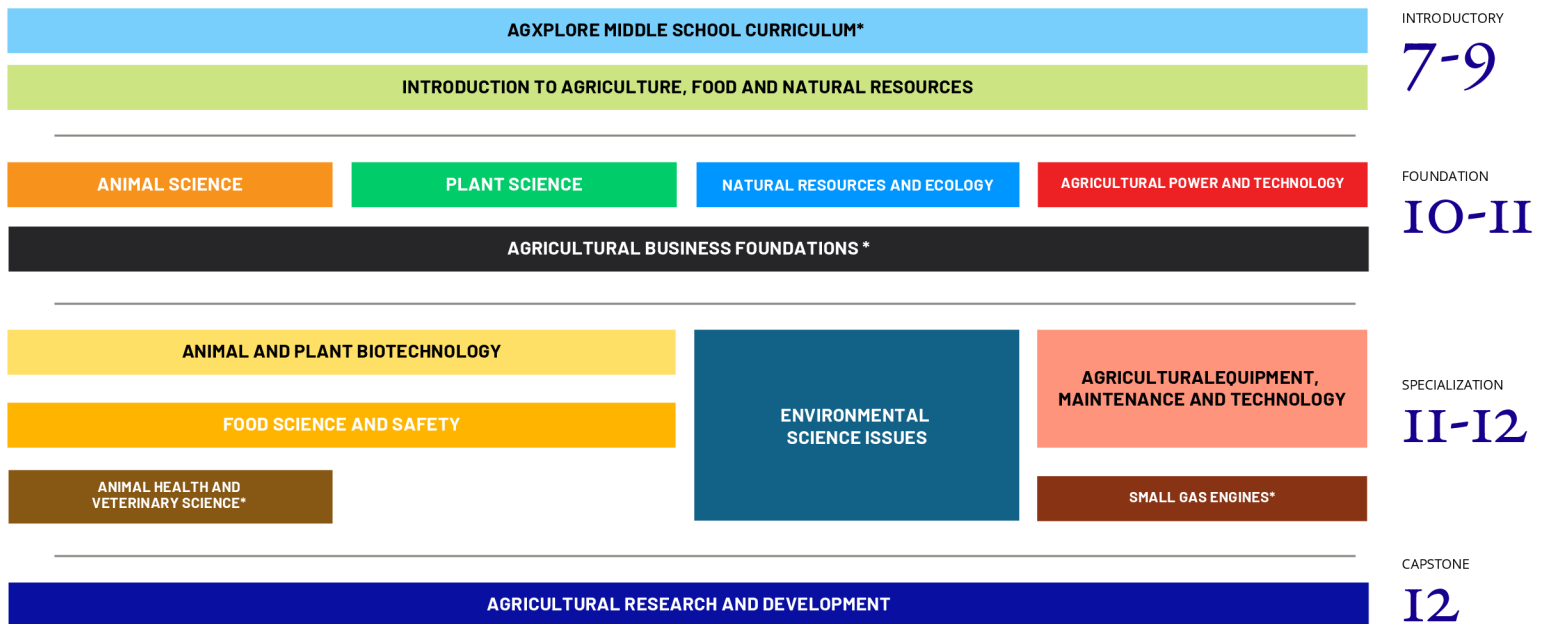
Equipping Teachers Engaging Students



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.