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 and click on “Professional Development.”

Agricultural Power and Technology

CASE

Curriculum for Agricultural Science Education

300 Garrigus Building | Lexington, KY 40546-0215
Phone: 800-509-0204 | Fax: 859-323-3919
www.case4learning.org | info@case4learning.org
**CASE Program of Study**

“We are grateful to TransCanada, John Deere, and Firestone for sponsoring the CASE Agricultural Power and Technology course as a special project through the National FFA Foundation.”

-- recommendation in Perkins reauthorization

Agricultural Power and Technology is a foundation level course designed to prepare students for the wide array of career opportunities in agricultural engineering. Students are immersed in inquiry-based exercises that tie in the math and science of agricultural mechanics and engineering. Throughout the course, students apply technical skill while becoming competent in the process used to operate, repair, engineer, and design agricultural tools and equipment.

**Agricultural Power and Technology**

Areas of study include:
- Engineering Design
- Shop Safety
- Tool Operation
- Material Properties and Selection
- Project Planning
- Fabrication
- Energy and Power
- Machines
- Structures

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

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**Agricultural Power and Technology**

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

**Agricultural Power and Technology**

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.

Students develop a foundation of mechanical and engineering skills in *Agricultural Power and Technology*. Science of materials and energy used in agriculture are integrated throughout the course to develop a strong knowledge base. Once students establish a strong scientific knowledge and skill base, they begin to design machines and structures. Then students progress to the specialization course *Mechanical Systems in Agriculture*. All CASE pathways culminate with the capstone course *Agricultural Research and Development*. 