



**Curriculum for Agricultural Science Education (CASE) -  
Agricultural Power and Technology  
2020-2021 STEM Scale-Up Program**

**Grade Levels:** 9-12, available in school

**Website:** <https://www.case4learning.org/curriculum/case-courses/agricultural-power-and-technology>

**Video Link:** [https://www.youtube.com/watch?v=YNGvaj\\_fztA](https://www.youtube.com/watch?v=YNGvaj_fztA)

<p><b>Award Provides:</b></p> <p><b>Professional Development Training Institute</b></p> <ul style="list-style-type: none"> <li>• Two week training held during the summer</li> <li>• Lodging</li> <li>• Most meals</li> <li>• All institute material expenses</li> <li>• Materials/Equipment</li> </ul> <p><b>Additional Cost(s) to Awardee In 2020-2021:</b> (examples: travel, lodging, substitutes, equipment, fees)</p> <ul style="list-style-type: none"> <li>• Travel to and from the institute.</li> <li>• Equipment beyond the \$8,500 award allocation. This will vary by school based on previous CASE program implementations.</li> </ul> <p><b>Approximate Sustainability Cost After Award Period:</b> (examples: license fees, materials) \$1,150</p>	<p><b>Program Summary:</b></p> <p><i>Agricultural Power and Technology</i> course is a foundation course within the CASE™ sequence of courses. The course provides students a variety of experiences that are in the fields of 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.</p> <p><b>Requirements to Implement the Program:</b></p> <ul style="list-style-type: none"> <li>• Attend two weeks of CASE™ Curriculum Institute (Institute dates and locations will vary)</li> <li>• Commit to adopt and teach CASE™ curriculum upon return from institute (2021-2022 school year)</li> <li>• Travel expenses</li> <li>• Secure equipment and supplies to teach CASE™ course above the award allocation</li> </ul> <p><b>Professional Development:</b></p> <p><b>Duration:</b> 9 day workshop  <b>Date(s):</b> June or July of 2021. Course schedule will be released in late Oct. 2020  <b>Location:</b> Plan is to have one somewhere in central Iowa, location TBD</p>
--	--

**STEM Scale-Up Program Application Link:** [www.iowaSTEM.gov/Scale-Up-Application](http://www.iowaSTEM.gov/Scale-Up-Application)