

## CTE COURSE ENRICHMENT ACTIVITIES

Course Name(s): Agricultural and Biosystems Engineering – May 4-8, 2020		
<p>Listed below are TDOE Standards for the 2019-2020 school year. Please see the suggested resources listed beside each of the standards addressed and the suggested practice items that accompany each standard.</p> <p><a href="https://www.tn.gov/content/dam/tn/education/ccte/ag/cte_std_agricultural_biosystems_engineering.pdf">https://www.tn.gov/content/dam/tn/education/ccte/ag/cte_std_agricultural_biosystems_engineering.pdf</a></p>		
TN State Standard addressed:	Recommended resource(s):	Recommended Practice(s):
<p>Monday May 4, 2020</p> <p>5) Synthesize case studies and field experience to provide evidence of the impact of geographic information systems (GIS) and global positioning systems (GPS) on agricultural demographics, precision agriculture, pasture management, water quality, watershed management, and waste pollution. Discuss the implications for industry and labor with the incorporation of these technologies into more and more facets of agricultural life.</p>	<p><a href="#">Rutherford County GIS Website</a></p>	<p>Visit the Rutherford County GIS Website and open up the new county GIS map. Familiarize yourself with the different functions on the navigational bar at the top of the map. What are the functions of the Legend, Layers, Basemap Gallery, Overview map, Measure, and Details buttons?</p>
<p>Wednesday May 6, 2020</p> <p>5) Synthesize case studies and field experience to provide evidence of the impact of geographic information systems (GIS) and global positioning systems (GPS) on agricultural demographics, precision agriculture, pasture management, water quality, watershed management, and waste pollution. Discuss the implications for industry and labor with the incorporation of these technologies into more and more facets of agricultural life.</p>	<p><a href="#">Rutherford County GIS Website</a></p>	<p>Type in your address in the text box at the top right corner of the navigational bar.</p> <p>Using the “Measure” button, drop a pin on your house and determine the straight-line distance from your house to the front door of the school. Then, use the same function to determine the distance from your front door to your parking spot on campus following the route you drive to school.</p>
<p>Friday May 8, 2020</p> <p>5) Synthesize case studies and field experience to provide evidence of the impact of GIS and GPS on agricultural demographics, precision agriculture, pasture management, water quality, watershed management, and waste pollution. Discuss the implications for industry and labor with the incorporation of these technologies into more and more facets of agricultural life.</p>	<p><a href="#">Rutherford County GIS Website</a></p> <p>Web search</p>	<p>Use the “Layers” button to select “Rutherford County Subdivisions and Zoning.” Describe what each of the different colors mean on the map. If you were looking for agricultural land to purchase, which color(s) on the map you want to buy?</p>