

## RTTT Career and Technical Education STEM Program Descriptions

<b>Program Title</b>	<b>Environmental Resources - 8113000</b>										
<b>CTE Courses and Descriptions</b>	<p><b>8106810 Agriscience Foundations I*</b> – designed to develop competencies in the areas of agricultural history and the global impact of agriculture; career opportunities; scientific and research concepts; biological and physical science principles; environmental principles; agriscience safety; principles of leadership; and agribusiness, employability, and human relations skills in agriscience. Laboratory-based activities are an integral part of this course. These include the safe use and application of appropriate technology, scientific testing and observation equipment. <i>(*Meets graduation requirement for a science credit with a lab component and is a core credit for college admission)</i></p> <p><b>8106850 Agricultural Biotechnology 2</b> – developed as a core and is designed to develop competencies in the areas of agricultural biotechnology, scientific investigation, laboratory safety, scientific and technological concepts; and the fundamentals of biotechnology.</p> <p><b>8113010 Environmental Resources 3</b> – designed to develop competencies in the areas of water resources, native flora and fauna, Florida ecosystems, soil characteristics, and collecting, recording and analyzing data.</p> <p><b>8113020 Environmental Resources 4</b> – designed to develop competencies in the areas of land management, weather systems, wildlife programs, commodity and non-commodity resources, sustainable agriculture and environmental research.</p>										
<b>Integrated Core Course(s)</b>	<b>Biology</b>										
<b>Teacher Certification(s)</b>	<b>AGRICULTUR 1 @2</b>										
<b>Industry Certification(s)</b>	<b>Applicable industry certification is currently under development by industry and will be available for implementation</b>										
<b>Number of Articulated Credits</b>	<b>None at this time</b>										
<b>Implementation Costs*</b> *Program Specialist can provide detailed cost descriptions  Total does not include facility cost	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;"><b>Laboratory Materials</b> (Lab kits, sterilizers, lab equipment, etc.)</td> <td style="text-align: right; vertical-align: bottom;"><b>\$45,028.62</b></td> </tr> <tr> <td><b>Technology</b> (Computer Mainstream/Printers AV/Projection/Whiteboard)</td> <td style="text-align: right; vertical-align: bottom;"><b>\$12,448.97</b></td> </tr> <tr> <td><b>Lab Furniture</b></td> <td style="text-align: right; vertical-align: bottom;"><b>\$8,832.83</b></td> </tr> <tr> <td><b>Miscellaneous</b> (First aide kit, refrigerator w/ice maker, etc)</td> <td style="text-align: right; vertical-align: bottom;"><b>\$818.26</b></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL \$67,128</b></td> </tr> </table>	<b>Laboratory Materials</b> (Lab kits, sterilizers, lab equipment, etc.)	<b>\$45,028.62</b>	<b>Technology</b> (Computer Mainstream/Printers AV/Projection/Whiteboard)	<b>\$12,448.97</b>	<b>Lab Furniture</b>	<b>\$8,832.83</b>	<b>Miscellaneous</b> (First aide kit, refrigerator w/ice maker, etc)	<b>\$818.26</b>	<b>TOTAL \$67,128</b>	
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<b>Recommended Feeder Program/Course(s)</b>	<p><b>Introduction to Agriscience</b>  <b>Orientation to Agriscience</b>  <b>Exploration of Agriscience</b></p> <p><b>*Agriscience Foundations (a high school course) is currently offered in some districts at the middle school level (would be an earned high school credit)</b></p>										