

RTTT Career and Technical Education STEM Program Descriptions

Program Title	Plant Biotechnology - 8106510										
CTE Courses and Descriptions	<p>8106810 Agriscience Foundations I* – 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>8106850 Agricultural Biotechnology 2 – 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>8106510 Plant Biotechnology 3 – designed to develop competencies in the areas of biotechnology in plant science, plant growth and reproduction, and the role of plants in the environment.</p>										
Integrated Core Course(s)	Biology										
Teacher Certification(s)	AGRICULTUR 1 @2										
Industry Certification(s)	<p>Certified Horticulture Professional * Additional certification in Plant Biotechnology is currently under development and will be available for implementation</p>										
Number of Articulated Credits	6 credits										
<p>Implementation Costs* *Program Specialist can provide detailed cost descriptions</p> <p>Total does not include facility cost</p>	<table> <tr> <td>Laboratory Materials (lab kits, sterilizers, lab equipment, etc.)</td> <td align="right">\$45,028.62</td> </tr> <tr> <td>Technology (Computer Mainstream/Printers AV/Projection/Whiteboard)</td> <td align="right">\$12,448.97</td> </tr> <tr> <td>Lab Furniture</td> <td align="right">\$8,832.83</td> </tr> <tr> <td>Miscellaneous (First aide kit, refrigerator w/ice maker, etc)</td> <td align="right">\$818.26</td> </tr> <tr> <td align="right">TOTAL</td> <td align="right">\$67,128.68*</td> </tr> </table>	Laboratory Materials (lab kits, sterilizers, lab equipment, etc.)	\$45,028.62	Technology (Computer Mainstream/Printers AV/Projection/Whiteboard)	\$12,448.97	Lab Furniture	\$8,832.83	Miscellaneous (First aide kit, refrigerator w/ice maker, etc)	\$818.26	TOTAL	\$67,128.68*
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Recommended Feeder Program/Course(s)	<p>Introduction to Agriscience Orientation to Agriscience Exploration of Agriscience</p> <p>*Agriscience Foundations (a high school course) is currently offered in some districts at the middle school level (would be an earned high school credit)</p>										