

RTTT Career and Technical Education STEM Program Descriptions

Program Title	Agricultural Biotechnology										
CTE Courses and Descriptions	<p>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>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>Agricultural Biotechnology 3 – designed to expand the competencies addressed in the core including the influence and impact of biotechnology in plant science, animal science and the environmental. The competencies will also include growth and reproduction, sustainable agriculture and research.</p>										
Integrated Core Course(s)	Biology										
Teacher Certification(s)	AGRICULTUR 1 @2										
Industry Certification(s)	Applicable industry certification is currently under development by industry and will be available for implementation										
Number of Articulated Credits	None at this time										
Implementation Costs* *Program Specialist can provide detailed cost descriptions Total does not include facility cost	<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 can be taught at the middle school level (would be an earned high school credit)</p>										