

RTTT Career and Technical Education STEM Program Descriptions

Program Title	Biomedical Science
CTE Courses and Descriptions	<p>8708110: Principles of the Biomedical Sciences-provides an introduction to the biomedical sciences through exciting “hands-on” projects and problems. Student work involves the study of human medicine, research processes and an introduction to bio-informatics.</p> <p>8708120: Human Body Systems- engages students in the study of the processes, structures and interactions of human body systems. Important biomedical concepts in the course include: communication, transport of substances, locomotion, metabolic processes, identity, and protection.</p> <p>8708130: Biomedical Interventions- curriculum for this course has not been finalized by Project Lead The Way ®</p> <p>8708140: Biomedical Science Research- curriculum for this course has not been finalized by Project Lead The Way ®</p>
Integrated Core Course(s)	Biology
Teacher Certification(s)	Biology 1 @2 Reg Nurse G Med Prof G Paramedic @7 G
Industry Certification(s)	Certified LabVIEW Associate Developer (CLAD)
Number of Articulated Credits	None presentably available
Implementation Costs	<p><u>Start Up for a classroom of 20 students:</u></p> <p>Computer Equipment and Software Purchases:</p> <ul style="list-style-type: none"> • Computers: \$13,189 • Printer and Projector: \$2,547 • Inspiration Software 10-Licenses: \$465 <p style="text-align: right;"><i>Total: \$16,201</i></p> <p>Laboratory Equipment and Supplies (for the first 3 of 4 courses):</p> <ul style="list-style-type: none"> • Furniture: \$420 • Lab Equipment: \$27,469 • Glassware and Plasticware: \$928 • Models: \$8,004 • General Tools and Supplies: \$2,984 • Chemicals and Consumables: \$4,954 <p style="text-align: right;"><i>Total: \$44,759</i></p> <p>Recurring Costs:</p> <ul style="list-style-type: none"> • LabVIEW Software (25 seats): \$1,000 • LabVIEW Software (100 seats): \$2,400 • School Participation Fee: \$2,000 <p style="text-align: right;"><i>Total: \$5,400</i></p> <p style="text-align: right;">Overall Total \$66,360</p>
Recommended Feeder Program/Course(s)	None at present

