

## RTTT Career and Technical Education STEM Program Descriptions

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| <b>Program Title</b>                      | <b>Architectural Drafting 8725400</b>  |
| <b>CTE Courses and Descriptions</b>       | <p>The purpose of this program is to prepare students for employment in the architectural drafting industry.</p> <p><b>8725450 Architectural Drafting 5</b></p> <p>This course is designed to provide instruction in preparing pictorial drawing.</p> <p>8725010 Drafting 1 (Core)<br/>             8725020 Drafting 2 (Core)<br/>             8725030 Drafting 3 (Core)<br/>             8725040 Drafting 4 (Core)</p> <p>This four-course (Core), project-based drafting technologies program is designed to provide instruction in the following drafting skills, mathematical skills, multi-view and sectional drawings, pictorial drawing, surface development, architectural drawing. Demonstrate an understanding of civil drawing and electrical/electronic literacy, perform basic computer aided drafting skills, demonstrate communication, math, and basic science and how it applied to drafting, demonstrate an understanding of employability skills and entrepreneurship.</p> <p>Students completing the Drafting (Core) are encouraged to complete advanced drafting technology programs in any of the following Architectural, Electrical, Electronic, Mechanical, Structural, Drafting.</p> |
| <b>Integrated Core Course(s)</b>          | Geometry   |
| <b>Teacher Certification(s)</b>           | BLDG CONSTR @7G<br>DRAFTING @7G<br>TEC DRAFT @7G<br>TEC CONSTR @7G   |
| <b>Industry Certification(s)</b>          | ADDA Drafter Certification (AMDDA001)<br>Autodesk Certified Associate - AutoCAD (ADESK016)<br>Autodesk Certified Professional - AutoCAD Architecture (ADESK022)<br>Autodesk Certified Professional - Revit Architecture (ADESK025)   |
| <b>Number of Articulated Credits</b>      | None.  |
| <b>Implementation Costs</b>               | <p><b>Startup Costs (approximate): \$120,000</b><br/>             This is a turnkey 20-seat estimate and includes computers, software, peripheral equipment, furniture, course-specific equipment, textbooks, and training for one teacher. This estimate does not include any instructional technology items such as smart boards, computer projection devices, etc.</p> <p><b>Recurring Costs (approximate): \$8,000</b><br/>             This includes software lease renewals and replacement consumables.</p>   |
| <b>Recommended Feeder Programs/Course</b> | None currently available   |