Lancaster County Career & Technology Center
Program Guide

including
Program Information Sheets
and
Skill Alignment Charts

2017-2018

Introduction

The purpose of this document is to provide guidance to school counselors, parents, and students with information regarding the programs offered at the Lancaster County Career & Technology Center (LCCTC).

The LCCTC, Lancaster County school districts, and the IU13 are dedicated to providing education and training to prepare students for college and career success. We encourage you to use this Program Guide to explore the many options available to students at the LCCTC campuses. Included are recommended courses of study, certification options, financial obligations, and specific skill information for each program. Take the time to review the information and select a path that will fulfill your personal goals for education and or work.

The Lancaster County Career & Technology Center does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Career and technical education program offerings include: healthcare; public safety; consumer services; transportation, construction, advanced manufacturing, visual communications; and culinary arts. Admission criteria is available can be found on the Lancaster County Career & Technology Center website. Inquiries may be directed to the Supervisor of Student Services and Title IX Coordinator or the Section 504 Coordinator at 1730 Hans Herr Drive, Willow Street, PA 17584 or 717-464-7050.

For information regarding the Americans with Disabilities Act (ADA), the rights of an individual with a disability, our obligations under ADA, or grievance procedures, contact the Business Manager and ADA Coordinator, 1730 Hans Herr Drive, PO Box 527, Willow Street, PA 17584-0527. Telephone: 717-464-7050.

For inquiries regarding other nondiscriminatory policies and programs, or for information regarding services, activities, programs and facilities that are accessible to and usable by both disabled persons and national origin minority persons who lack English language skills, contact the Supervisor of Student Services and Coordinator for Title VI, Title IX and Section 504, 1730 Hans Herr Drive, PO Box 527, Willow Street, PA 17584. Telephone: 717-464-7050 x3124
<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Director</td>
<td>David Warren</td>
</tr>
<tr>
<td>Assistant Executive Director</td>
<td>B. Keith Yohn</td>
</tr>
<tr>
<td>Supervisor of Student Services</td>
<td>Darla Gettle</td>
</tr>
<tr>
<td>Supervisor of Curriculum</td>
<td>Mike Moeller</td>
</tr>
<tr>
<td>Special Needs Counselor</td>
<td>Carolyn Daneker</td>
</tr>
<tr>
<td>Career Development Counselor</td>
<td>Ben Stiles</td>
</tr>
<tr>
<td>Counseling Projects Facilitator</td>
<td>Grace Walters</td>
</tr>
</tbody>
</table>

**Brownstown Campus**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal</td>
<td>Michael DelPriore</td>
</tr>
<tr>
<td>Assistant Principal</td>
<td>James Brunken</td>
</tr>
<tr>
<td>Campus Counselor</td>
<td>Ruth Mallinon</td>
</tr>
</tbody>
</table>

**Mount Joy Campus**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal</td>
<td>David Smith</td>
</tr>
<tr>
<td>Assistant Principal</td>
<td>Thomas Wolfe</td>
</tr>
<tr>
<td>Campus Counselor</td>
<td>Leslie Schlosser</td>
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</table>

**Willow Street Campus**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal</td>
<td>James Catino</td>
</tr>
<tr>
<td>Assistant Principal</td>
<td>Shannon Downing</td>
</tr>
<tr>
<td>Campus Counselor</td>
<td>Lynette Thomas</td>
</tr>
</tbody>
</table>
Lancaster-Lebanon Intermediate Unit 13 Staff for the
Lancaster County Career & Technology Center

**Gina Guatta,** Program Supervisor  
**Rayna Loucks,** Program Assistant  
**Kelly Beears,** Special Education Consultant  
**Titina Brown (BT), Carol Reina (MJ) & Erin Schoiack (WS),** School Psychologists  
**Sue Cammauf & Amy Roth,** Social Workers

<table>
<thead>
<tr>
<th>Campus</th>
<th>Itinerant Learning Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brownstown Campus</td>
<td>Jonathan Stillman, Teacher Kate Weiler, Teacher Travis Whiteside, Teacher Pamela Wunderlich, Teacher</td>
</tr>
<tr>
<td></td>
<td>Paraeducators: Darlene Lapp, Connie Phillips, Corrine Wenger</td>
</tr>
<tr>
<td>Mount Joy Campus</td>
<td>Christopher Kauffman, Teacher Amber Mentz, Teacher Wendy Mowery, Teacher James Tallent, Teacher</td>
</tr>
<tr>
<td></td>
<td>Paraeducators: Kim Fasnacht, Meg Holmes, Tracy Roland,</td>
</tr>
<tr>
<td>Willow Street Campus</td>
<td>Kathleen Coleman, Teacher Addy Dangler, Teacher Karen Purdin, Teacher Rebecca Swiatek, Teacher Heather VanAulen, Teacher</td>
</tr>
<tr>
<td></td>
<td>Paraeducators: Lois Geyer, Heather Lash, Sheryl Linard,</td>
</tr>
</tbody>
</table>
# Senior Full-Day Program Offerings

<table>
<thead>
<tr>
<th>Brownstown Campus</th>
<th>Mount Joy Campus</th>
<th>Willow Street Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Manufacturing Center</strong>&lt;br&gt;Cabinetmaking &amp; Wood Technology 48.0703</td>
<td><strong>Advanced Manufacturing Center</strong>&lt;br&gt;Electro-Mechanical Engineering Technology 15.0403&lt;br&gt;Precision Machining &amp; Computer-Aided Technology 48.0599&lt;br&gt;Sheet Metal Technology 48.0506&lt;br&gt;Welding Technology 48.0508</td>
<td><strong>Agriscience Center</strong>&lt;br&gt;Animal Production Science &amp; Technology 01.0901&lt;br&gt;Veterinary Assistant 51.0808</td>
</tr>
<tr>
<td><strong>Construction Technologies Center</strong>&lt;br&gt;Architectural CAD/Design 15.1303</td>
<td><strong>Construction Technologies Center</strong>&lt;br&gt;Commercial Construction/Management 46.0201&lt;br&gt;Residential Carpentry 46.0201&lt;br&gt;Consumer Services Center&lt;br&gt;Cosmetology 12.0401</td>
<td><strong>Consumer Services Center</strong>&lt;br&gt;Cosmetology 12.0401&lt;br&gt;Early Childhood Education 19.0708&lt;br&gt;Commercial Art 50.0402&lt;br&gt;Culinary Arts Center&lt;br&gt;Baking &amp; Pastry Arts 12.0501&lt;br&gt;Culinary Arts/Chef 12.0508&lt;br&gt;Event Planning &amp; Tourism Services Management 52.1905&lt;br&gt;Protective Services Center&lt;br&gt;Protective Services Academy 43.9999</td>
</tr>
<tr>
<td><strong>Electrical Construction Technology</strong> 46.0399</td>
<td><strong>Information Technology Center</strong>&lt;br&gt;Computer Systems Technology 15.1202</td>
<td></td>
</tr>
<tr>
<td><strong>Heavy Equipment Operations &amp; Basic Maintenance 49.0202</strong>&lt;br&gt;HVAC/R 47.0201&lt;br&gt;Painting/Ceramic Tile &amp; Vinyl 46.0408&lt;br&gt;Plumbing 46.0503</td>
<td><strong>Visual Communications Center</strong>&lt;br&gt;Commercial Art 50.0402&lt;br&gt;Digital Design/Print Media 10.0399&lt;br&gt;Photography &amp; Digital Imaging 50.0406</td>
<td></td>
</tr>
</tbody>
</table>

# Senior Half-Day Program Offerings

<table>
<thead>
<tr>
<th>Brownstown Campus</th>
<th>Mount Joy Campus</th>
<th>Willow Street Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Day Program for Senior</strong>&lt;br&gt;Advanced Health Careers (PM session only) 51.0899</td>
<td><strong>Part Day Program for Senior</strong>&lt;br&gt;Advanced Health Careers (PM session only) 51.0899</td>
<td><strong>Part Day Program for Senior</strong>&lt;br&gt;Advanced Health Careers (AM session only) 51.0899</td>
</tr>
</tbody>
</table>
## Junior Half-Day Cluster Program Offerings

<table>
<thead>
<tr>
<th>Brownstown Campus</th>
<th>Mount Joy Campus</th>
<th>Willow Street Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Construction Cluster</strong></td>
<td><strong>Construction Cluster</strong></td>
<td><strong>Construction Cluster</strong></td>
</tr>
<tr>
<td>Construction Cluster 46.0201</td>
<td>Construction Cluster 46.0201</td>
<td>Construction Cluster 46.0201</td>
</tr>
<tr>
<td>Culinary Cluster 12.0508</td>
<td>Culinary Cluster 12.0508</td>
<td>Culinary Cluster 12.0508</td>
</tr>
<tr>
<td>Health Care Cluster (AM session only) 51.0899</td>
<td>Health Care Cluster (AM session only) 51.0899</td>
<td>Health Care Cluster (PM session only) 51.0899</td>
</tr>
<tr>
<td>Manufacturing Cluster 48.0508</td>
<td>Transportation Cluster 47.0604</td>
<td>Manufacturing Cluster 48.0508</td>
</tr>
<tr>
<td>Transportation Cluster 47.0604</td>
<td></td>
<td>Transportation Cluster 47.0604</td>
</tr>
<tr>
<td>Visual Communications Cluster 10.0399</td>
<td></td>
<td>Visual Communications Cluster 10.0399</td>
</tr>
</tbody>
</table>
Checklist for Students Considering
Lancaster County Career & Technology Center Programs

The student, parent/guardian, and school counselor should investigate each program being considered to evaluate the student's ability to complete the course requirements. Review skill alignment charts found in this guide for more detailed information about each program.

Prior to submitting a CTC application, a student should:

☐ Attend the CTC presentation at student’s high school

☐ Meet with high school counselor to discuss program options and results of aptitude, ability, and interest inventories.

☐ Review the Skill Alignment Chart(s) in this document

☐ Attend CTC tour(s) offered through the student's high school counseling office

☐ Attend CTC Open House

☐ Request an individual visit to programs of interest through the student’s high school counseling office
Special Education Student Assessment for Transition Planning and for Career Placement

Assessment produces the information needed by the teams to make planning and placement decisions concerning transition-aged students with disabilities. It is an individualized, on-going process that identifies the needs of the student and helps a student and his/her family to decide what they want the student to do after leaving school. Assessment information is used to write goals and objectives based on student needs. These become incremental steps toward achieving post-high school outcomes. Outcomes include employment, post-secondary education or training, and/or community involvement including; residential, recreation, and leisure. Assessment for transition planning is a continuing process beginning at age 14 when a course of study must be chosen for the student with disabilities. The success of the assessment process depends upon the active involvement of the students and their families.

If a student is interested in enrolling in a career & technical program, a vocational-technical assessment needs to be conducted. Such assessments may include having the student try out several career programs for a period of time to determine which program is appropriate.

LANCASTER COUNTY CTC - SELECTION PROCESS

1. The CTC Staff will date stamp all applications that are received after January 27, 2017. If programs are oversubscribed a selection process will be used to determine which students will be selected for the program (see selection criteria below). All late applicants will be put on a waiting list or they may make an alternate choice.

2. Students and sending school counselors will be advised of the selection decisions the week of March 13, 2017.
# SELECTION CRITERIA AND SCORING (To Be Completed by a Sending District Counselor)

1. **Attendance (25 pts)** — Based upon total days absent (excused and unexcused) from previous full school year through November 30. Circle the total days absent and the corresponding point value as shown below. Explain excessive absences in comments section below.

<table>
<thead>
<tr>
<th>Days Absent</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
<th>25+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Points</td>
<td>25</td>
<td>24</td>
<td>23</td>
<td>22</td>
<td>21</td>
<td>20</td>
<td>19</td>
<td>18</td>
<td>17</td>
<td>16</td>
<td>15</td>
<td>14</td>
<td>13</td>
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<td>9</td>
<td>8</td>
<td>7</td>
<td>6</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

2. **Citizenship (25 pts)** — Based on the descriptions below, circle the number most representative of the student's citizenship from prior year through November 30 of the current year.

- Demonstrates self-discipline and positive regard for others.
- Generally self-disciplined and respectful to others.
- No disciplinary incidents
- Generally self-disciplined and respectful to others, 1 disciplinary infraction
- Generally self-disciplined and respectful to others, 2 disciplinary infractions
- Lacks self-discipline and respect for others, 1 disciplinary infraction
- Lacks self-discipline and respect for others, 2 disciplinary infractions
- Lacks self-discipline and respect for others, 3 or more disciplinary infractions

3. **Academic Readiness (50 pts)**
   - **Academic Rigor** — Circle the number of courses ABOVE core curriculum (include foreign languages) student has taken and passed during their high school career.

<table>
<thead>
<tr>
<th>Courses</th>
<th>&gt;10</th>
<th>9</th>
<th>8</th>
<th>7</th>
<th>6</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Points</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   - **Academic Grades** — Circle the number that represents the student's unweighted GPA during their high school career.

<table>
<thead>
<tr>
<th>Percentage (Average/Unweighted GPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>04-100% or 1.69-2.00</td>
</tr>
<tr>
<td>90-93% or 2.29-3.00</td>
</tr>
<tr>
<td>87-89% or 2.69-3.30</td>
</tr>
<tr>
<td>83-85% or 2.99-3.70</td>
</tr>
<tr>
<td>80-82% or 3.09-4.00</td>
</tr>
<tr>
<td>77-79% or 3.39-5.00</td>
</tr>
<tr>
<td>73-76% or 3.59-7.00</td>
</tr>
<tr>
<td>70-73% or 3.79-9.00</td>
</tr>
<tr>
<td>&lt;70% or &lt;3.98</td>
</tr>
</tbody>
</table>

4. **Teacher Recommendation (12 pts)** — Student applicant should obtain one teacher recommendation from a teacher whose class they completed; teachers will return the recommendations to the high school guidance office to be submitted to LCCTC with the application package. Current Cluster student teacher recommendations will be coordinated by the LCCTC Counselor.

   - Returning Student: Total Recommendation Score ______ + ______ = ______
   - New Student: Total Recommendation Score ______ ÷ ______ = ______

5. **Application Submission Date (3 pts)** — Student submitted the application on time to CTC.

   - Yes — Add 3 points

   Comments: Use this space to qualify ANY of the selection criteria ratings. For example, a medical condition may have caused excessive absenteeism. Extra points may be awarded by the LCCTC Student Services department based on these qualifications or mitigating circumstances.

   **Counselor Signature**: ____________  **CTC Coord. Counselor Initials**: ____________  **TOTAL POINTS**: ____________
Lancaster County Career & Technology Center Program Offerings
Programs for High School Seniors

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Architectural CAD/Design (BT) .......................................................................................................................... 16
Automotive Mechanics (WS) .................................................................................................................................. 18
Automotive Technology (WS) ................................................................................................................................... 20
Baking & Pastry Arts (MJ) ...................................................................................................................................... 22
Cabinetmaking & Wood Technology (BT) .............................................................................................................. 24
Clinical Care Assistant (WS) ................................................................................................................................. 26
Collision Repair (WS) .............................................................................................................................................. 28
Commercial Art (BT) .............................................................................................................................................. 30
Commercial Construction/Management (MJ) ........................................................................................................ 32
Computer Systems Technology (BT) .................................................................................................................. 34
Cosmetology (MJ/WS) ........................................................................................................................................... 36
Culinary Arts/Chef (MJ) ......................................................................................................................................... 38
Dental Assistant (WS) ........................................................................................................................................... 40
Diesel Equipment Technology (WS) ..................................................................................................................... 42
Digital Design/Print Media (BT) .......................................................................................................................... 44
Early Childhood Education (MJ) ........................................................................................................................ 46
Electrical Construction Technology (BT) ............................................................................................................... 48
Electro-Mechanical Engineering Technology (MJ) ............................................................................................ 50
Event Planning & Tourism Services Management (MJ) ....................................................................................... 52
Heavy Equipment Operations & Basic Maintenance (BT) ................................................................................ 54
HVAC/R (BT) ........................................................................................................................................................ 56
Medical Administrative Assistant (WS) .................................................................................................................. 58
Medical Assistant (WS) .......................................................................................................................................... 60
Nursing Assistant/Home Health Aide (WS) .......................................................................................................... 62
Painting/Ceramic Tile & Vinyl (BT) ....................................................................................................................... 64
Photography & Digital Imaging (BT) .................................................................................................................... 66

BT – Brownstown   MJ – Mount Joy   WS - Willow Street   PSTC – Lancaster County Public Safety Training Center

*NOTE: All programs are full-day unless indicated *Half-Day.
Lancaster County Career & Technology Center Program Offerings

Programs for High School Seniors

Plumbing (BT) ................................................................................................................................. 68
Precision Machining & Computer-Aided Manufacturing (MJ) ......................................................... 70
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Lancaster County Career & Technology Center Program Offerings

Programs for High School Juniors

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*Manufacturing Cluster (BT/WS) *Half-Day Program for Underclassmen........................................ 92
*Transportation Cluster (BT/MJ/WS) *Half-Day Program for Underclassmen.................................... 94
*Visual Communications Cluster (BT/WS) *Half-Day Program for Underclassmen......................... 96

BT – Brownstown MJ – Mount Joy WS - Willow Street PSTC – Lancaster County Public Safety Training Center

*NOTE: All programs are full-day unless indicated *Half-Day.
Program Information for:
*Advanced Health Careers – CIP Code 51.0899(BT/MJ/WS)*
The following information is extremely important for you to know about this program.

- Shadow health care professionals in a variety of clinical settings to observe patient care.
- Practice ethical standards, confidentiality, leadership, and professionalism when interacting with patients, clients, and coworkers.
- Develop student interest in a health care profession by using college level curriculum.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Care Safety</td>
<td>Textbooks: $238 approx.</td>
</tr>
<tr>
<td>24 Hour Clock</td>
<td>Certifications: BLS Healthcare Provider- $7, National</td>
</tr>
<tr>
<td>History and Trends of Health Care</td>
<td>Safety Council- Bloodborne &amp; Airborne Pathogens- No</td>
</tr>
<tr>
<td>Health Care Team</td>
<td>Cost</td>
</tr>
<tr>
<td>Ethics and Legal Aspects of Health Care</td>
<td>Uniforms: $110 approx.</td>
</tr>
<tr>
<td>Communication</td>
<td>Students need to purchase more than</td>
</tr>
<tr>
<td>Wellness Education</td>
<td>1Shirt/Pants to comply with uniform cleanliness</td>
</tr>
<tr>
<td>Growth and Development</td>
<td>standards.</td>
</tr>
<tr>
<td>Introduction to Medical Terminology</td>
<td><strong>Clearances:</strong></td>
</tr>
<tr>
<td>Client Assessment</td>
<td>TB test 1-2 step depending on clinical site</td>
</tr>
<tr>
<td>Clinical Observation/Career Experience</td>
<td>requirement, Record of Immunizations- <strong>Cost</strong></td>
</tr>
<tr>
<td></td>
<td>Varies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular</td>
<td>American Heart Association- BLS Healthcare</td>
</tr>
<tr>
<td>Diagnostic Imaging</td>
<td>Provider (no accommodations)</td>
</tr>
<tr>
<td>Emergency Medical Services</td>
<td>National Safety Council- Bloodborne &amp;</td>
</tr>
<tr>
<td>Health Information Management</td>
<td>Airborne Pathogens (no accommodations)</td>
</tr>
<tr>
<td>Massage Therapy</td>
<td></td>
</tr>
<tr>
<td>Medical Laboratory</td>
<td></td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td></td>
</tr>
<tr>
<td>Physical Therapy</td>
<td></td>
</tr>
<tr>
<td>Physician’s assistant</td>
<td></td>
</tr>
<tr>
<td>Pre-Med</td>
<td></td>
</tr>
<tr>
<td>Respiratory Care</td>
<td></td>
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**Skill Alignment Chart for:**  
*Advanced Health Careers– CIP Code 51.0899*  

**Brownstown/Mount Joy/Willow Street Campus Senior Half-Day Program**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td>• Pretesting with a passing score for reading &amp; writing at college level</td>
</tr>
<tr>
<td></td>
<td>• Reliable transportation</td>
</tr>
<tr>
<td>Vocational Testing (SAM)</td>
<td>Scores of average or above on:</td>
</tr>
<tr>
<td>Essential APTITUDES for this lab - Recommended levels</td>
<td>• Clerical perception</td>
</tr>
<tr>
<td></td>
<td>• General learning</td>
</tr>
<tr>
<td></td>
<td>• Verbal</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• College</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• 12th grade or above</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• 1-2 hours a day except clinical days</td>
</tr>
<tr>
<td>Homework</td>
<td>• 2-3 hours daily</td>
</tr>
<tr>
<td>Tasks Per Week</td>
<td>• 2 drug/disease cards every day nonclinical</td>
</tr>
<tr>
<td></td>
<td>• Approximately 9 tasks a year</td>
</tr>
<tr>
<td></td>
<td>• Journal every day while on clinical (full-page)</td>
</tr>
<tr>
<td>Tests</td>
<td>• 1 test every 3 days</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Ability to work with a team to complete projects</td>
</tr>
<tr>
<td></td>
<td>• Attention to detail extremely important</td>
</tr>
<tr>
<td></td>
<td>• Basic computer &amp; keyboarding skills</td>
</tr>
<tr>
<td></td>
<td>• Demonstrate initiative, responsibility, and critical thinking skills</td>
</tr>
<tr>
<td></td>
<td>• Excellent oral and written communication skills</td>
</tr>
<tr>
<td></td>
<td>• Excellent spelling</td>
</tr>
<tr>
<td></td>
<td>• Good attendance</td>
</tr>
<tr>
<td></td>
<td>• Good memorization skills</td>
</tr>
<tr>
<td></td>
<td>• Good time management skills to meet deadlines</td>
</tr>
<tr>
<td></td>
<td>• Spelling &amp; note taking skills</td>
</tr>
<tr>
<td></td>
<td>• Transportation for clinical (students must provide own transportation)</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**
Animal Production Science & Technology – CIP Code 01.0901 (WS)
The following information is extremely important for you to know about this program.

- Explore the care, management, evaluation, treatment and marketing of agricultural production animals such as beef, dairy, swine, poultry, sheep, goats, and horses.
- Experience the passion of working with animals in a variety of farm settings.
- Interact with experts in the field through job shadowing, clinical experience, co-op opportunities, and FFA membership.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Safety and Handling</td>
<td>Textbooks: $200-250</td>
</tr>
<tr>
<td>Animal Husbandry Skills</td>
<td>Certifications: $0-$200 approx.</td>
</tr>
<tr>
<td>Health Management</td>
<td>Tools/Materials: $50-$60</td>
</tr>
<tr>
<td>Identify Current Trends in Estrus Detection</td>
<td>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Dairy</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Equine</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Swine</td>
<td></td>
</tr>
<tr>
<td>Beef</td>
<td></td>
</tr>
<tr>
<td>Poultry</td>
<td></td>
</tr>
<tr>
<td>Sheep and Goats</td>
<td></td>
</tr>
<tr>
<td>Agriculture Business Management</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Production/Farmer/Herd Manager</td>
<td>• FFA Membership</td>
</tr>
<tr>
<td>Artificial Insemination Technician</td>
<td>• Articulation Agreements with Post-Secondary Programs</td>
</tr>
<tr>
<td>Dairy/Milk Processor</td>
<td>• Certifications:</td>
</tr>
<tr>
<td>Farrier</td>
<td>• Certified Poultry Technician Certification</td>
</tr>
<tr>
<td>Feed Mill Operator</td>
<td>• Transportation Quality Assurance Certification</td>
</tr>
<tr>
<td>Lab/Research Technician</td>
<td>• Beef Quality Assurance Certification,</td>
</tr>
<tr>
<td>Poultry Service/Vaccination Technician</td>
<td>• Pork Quality Assurance Plus Certification,</td>
</tr>
<tr>
<td>USDA Inspector</td>
<td>• Artificial Insemination</td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>• Dairy Animal Care Quality Assurance,</td>
</tr>
<tr>
<td></td>
<td>• FEMA Animals in Disasters: Awareness and Preparedness, FEMA Animals in Disasters: Community Planning, FEMA Livestock in Disasters</td>
</tr>
</tbody>
</table>

Revised 09/2016
**Skill Alignment Chart for:**
Animal Production Science & Technology – CIP Code 01.0901

**Willow Street Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Emotional and mental stability  
• Lift heavy objects/people  
• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations  
• Prolonged standing, bending, & stooping |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• General learning  
• Manual & finger dexterity  
• Verbal & numerical |
| Reading & Language Arts Levels | • 12th-College level |
| Math Levels | • Basic math  
• Conversions (metric system)  
• Fractions, decimals, percentages, & ratios  
• Grade appropriate English, spelling, grammar  
• Medical math (drug calculations)  
• Weight |
| Lecture Time | • 3-4 hours daily plus labs |
| Homework | • 30 min. to 1 hour daily |
| Tasks Per Week | • Approximately 40-50 tasks per marking period |
| Tests | • 2-3 tests/quizzes per week |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to work independently  
• Ability to work with a team to complete projects – very important  
• Attention to detail extremely important  
• Excellent communication and critical thinking skills  
• Excellent hygiene  
• Good Attendance  
• Keyboarding skills  
• Love of animals  
• Spanish speaking is a plus  
• Transportation needed for clinical  
• Willingness to try new things & step out of comfort zone |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Architectural CAD/Design – CIP Code 15.1303 (BT)
The following information is extremely important for you to know about this program.

- Work with experienced home and building designers.
- Create, design and produce complex working drawings from conception to completion.
- Use advanced state of the art software and hardware identical to what professional architects and engineers use.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The World of Architecture</td>
<td>Textbooks: $70-$120 approx.</td>
</tr>
<tr>
<td>• Basic Home Design</td>
<td>Certifications: International Residential Code 2009-$25, American Design</td>
</tr>
<tr>
<td>• Designing for Health and Safety</td>
<td>Drafting (optional)- $155 approx., OSHA- $25</td>
</tr>
<tr>
<td>• Primary Considerations</td>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>• The Floor Plan</td>
<td>Uniforms: $45 approx.</td>
</tr>
<tr>
<td>• Sleeping Areas</td>
<td>• Students need to purchase more than 1Shirt/Pants to comply with uniform</td>
</tr>
<tr>
<td>• Living Area</td>
<td>cleanliness standards.</td>
</tr>
<tr>
<td>• Service Area</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Plot Plans</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>• Footings, Foundations, and Concrete</td>
<td></td>
</tr>
<tr>
<td>• The Foundation Plan</td>
<td></td>
</tr>
<tr>
<td>• Sill and Floor Construction</td>
<td></td>
</tr>
<tr>
<td>• Wall and Ceiling Construction</td>
<td></td>
</tr>
<tr>
<td>• Doors and Windows</td>
<td></td>
</tr>
<tr>
<td>• Stairs</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Architectural Drafter</td>
<td>• American Design Drafting Association-Certified Drafter</td>
</tr>
<tr>
<td>• Architectural Illustrator</td>
<td></td>
</tr>
<tr>
<td>• CAD Drafter</td>
<td></td>
</tr>
<tr>
<td>• Entry Level Drafter</td>
<td></td>
</tr>
<tr>
<td>• Structural Drafter</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
### Skill Alignment Chart for:
Architectural CAD/Design – CIP Code 15.1303

Brownstown Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to work independently  
• Depth perception  
• Excellent self-discipline to focus for long periods of time  
• Stamina (ability to focus at work station for long periods of time)  
• Visual acuity |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Clinical perception  
• Form perception  
• Numerical  
• Spatial |
| Reading & Language Arts Levels | • Technical Reading & Memorization  
• Technical Writing |
| Math Levels | • Fractions, decimals, and basic math, ratios, percent's |
| Lecture Time | • 1-2 hours each morning |
| Homework | • 1-3 chapters per month  
• 1 vocabulary list every other week |
| Tasks Per Week | • 35 tasks per marking period |
| Tests | • 1 quiz every other week  
• 1 test per week (average) |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to visualize  
• Able to work with small groups of people  
• Computer skills/keyboarding  
• Excellent problem solving skills |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Automotive Mechanics – CIP Code 47.0604(WS)
The following information is extremely important for you to know about this program.

- Work on today’s high tech vehicle’s electronic, computerized, and mechanical systems.
- Develop the skills to be successful in a constantly changing automotive industry.
- Analyze, diagnose, maintain, and repair basic and advanced automotive systems.

**Curriculum Outline**
- Tools/Fasteners
- Certifications
- Suspension and Steering
- Brakes
- Electrical/Electronic Systems
- Engine Performance
- Engine Repair
- Automatic Transmission and Transaxle
- Manual Drive Train and Axles
- Heating and Air Conditioning

**Program Costs**
- Textbooks: $110 approx.
- Certifications: PA Safety Inspection License- $8,
  NATEF- $15, Additional Industry Certifications- Cost Varies
- Tools/Materials: Driver’s license highly recommended. Additional information in new student letter.
- Uniforms: $58 approx.
  - Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.
- CTSO Fee: $20.00
- Clearances: None

**Career Pathways**
- Alignment Technician
- Automotive Parts Salesperson
- Automotive Inspection Mechanic
- General Service Mechanic
- Service Manager

**Program Opportunities**
- PA Dept. of Trans- Certified Emissions Inspector
- Certified Safety Inspector Category I
### Skill Alignment Chart for:
Automotive Mechanics – CIP Code 47.0604
Willow Street Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry  
• Ability to diagnose the source of a problem quickly and accurately  
• Ability to work in tight spaces  
• Ability to work independently, read and follow directions  
• Good eye/hand coordination  
• Stamina to stand for long periods of time |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Finger dexterity  
• General learning  
• Manual dexterity  
• Spatial  
• Verbal |
| Reading & Language Arts Levels | • College level  
• Good oral and written communication skills  
• Good spelling skills  
• Public speaking  
• Technical reading skills |
| Math Levels | • Basic math  
• Fractions, decimals, & percentages  
• Measures-metric system  
• Weights |
| Lecture Time | • 1-2 hours daily |
| Homework | • 1-1 ½ hours daily  
• 1-3 chapters a week  
• 4 workbook assignments |
| Tasks Per Week | • 35 tasks per marking period |
| Tests | • 1 quiz per week  
• 1 test per week |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to work with a team  
• Basic computer skills  
• Drivers education  
• Driver’s license |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Automotive Technology – CIP Code 47.0604 (WS)
The following information is extremely important for you to know about this program.

- Work side by side with experienced Automotive Technicians.
- Experience the thrill of diagnosing today’s vehicle’s complex computer programs and mechanical systems.
- Develop the skills needed to become a part of the Automotive Technology Team.

### Curriculum Outline
- Tools/Fasteners
- Certifications
- Suspension and Steering
- Brakes
- Electrical/Electronic Systems
- Engine Performance
- Engine Repair
- Automatic Transmission and Transaxle
- Manual Drive Train and Axles
- Heating and Air Conditioning

### Program Costs
- Textbooks: $83
- Certifications: PA Safety Inspection License- $8, PA Emissions Inspection License- $55, NATEF- $15, Additional Industry Certifications- Cost Varies
- Tools/Materials: Driver’s license highly recommended. Additional information in new student letter.
- Uniforms: $58 approx.
- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.
- CTSO Fee: $20.00
- Clearances: None

### Career Pathways
- Automotive Inspection Technician
- Automotive Maintenance Technician
- General Repair Technician
- Entry Level Transmission Technician
- Entry Level Drivability Technician

### Program Opportunities
- PA Dept. of Trans- Certified Emissions Inspector
- Certified Safety Inspector Category I
# Skill Alignment Chart for:
Automotive Technology – CIP Code 47.0604
Willow Street Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td>• A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry</td>
</tr>
<tr>
<td></td>
<td>• Ability to diagnose the source of a problem quickly and accurately</td>
</tr>
<tr>
<td></td>
<td>• Ability to work in tight spaces</td>
</tr>
<tr>
<td></td>
<td>• Ability to work independently, read and follow directions</td>
</tr>
<tr>
<td></td>
<td>• Good eye/hand coordination</td>
</tr>
<tr>
<td></td>
<td>• Stamina to stand for long periods of time</td>
</tr>
<tr>
<td>Vocational Testing (SAM)</td>
<td>Scores of average or above on:</td>
</tr>
<tr>
<td>Essential APTITUDES for this lab - Recommended levels</td>
<td>• Finger dexterity</td>
</tr>
<tr>
<td></td>
<td>• General learning</td>
</tr>
<tr>
<td></td>
<td>• Manual dexterity</td>
</tr>
<tr>
<td></td>
<td>• Spatial</td>
</tr>
<tr>
<td></td>
<td>• Verbal</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• College level</td>
</tr>
<tr>
<td></td>
<td>• Good oral and written communication skills</td>
</tr>
<tr>
<td></td>
<td>• Good technical reading skills</td>
</tr>
<tr>
<td></td>
<td>• Public speaking</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• Basic math</td>
</tr>
<tr>
<td></td>
<td>• Fractions, decimals, &amp; percent's</td>
</tr>
<tr>
<td></td>
<td>• Measures-metric system/standard</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• ½ to 1 ½ hours daily</td>
</tr>
<tr>
<td>Homework</td>
<td>• 1-3 chapters a week (more at beginning)</td>
</tr>
<tr>
<td>Tasks Per Week</td>
<td>• 35 tasks per marking period</td>
</tr>
<tr>
<td>Tests</td>
<td>• Shop and written tests at end of every unit</td>
</tr>
<tr>
<td>POS Academics</td>
<td>• College level Public Speaking is a component of the LCCTC program</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Ability to work with a team to complete projects</td>
</tr>
<tr>
<td></td>
<td>• Background knowledge of electricity</td>
</tr>
<tr>
<td></td>
<td>• Basic computer skills</td>
</tr>
<tr>
<td></td>
<td>• Drivers education</td>
</tr>
<tr>
<td></td>
<td>• Transportation needed for employment success</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Baking & Pastry Arts – CIP Code 12.0501(MJ)
The following information is extremely important for you to know about this program.

- Work in a state of the art facility with professional pastry chefs.
- Combine creativity and skills to design specialty cakes and pastries.
- Produce baked goods and plated desserts for our restaurant, store, and catering events.

### Curriculum Outline
- Bakeshop ingredients
- Mise en Place & Culinary Math
- Quick Breads
- Artisan and Yeast Breads
- Enrich Yeast Dough
- Cookies & Brownies
- Pies & Tarts
- Pastry and Desert Components
- Cakes and Icings
- Custards, Creams and Sauces
- Ice Cream and Frozen Desserts
- Healthful & Special Needs Baking/Nutrition

### Program Costs
- Textbooks and Certification fee: $75
- Tools/Materials: Additional Information in the New Student Letter.
- Uniforms: $164 approx. (total package includes shoes)
- CTSO Fee: $20.00
- Clearances: None

### Career Pathways
- Baker
- Baker’s Helper
- Bakery Manager
- Cake Designer/Decorator
- Pastry Chef
- Pastry Cook

### Program Opportunities
- ServSafe Certification
- American Culinary Federation Certificate- Pastry
**Skill Alignment Chart for:**
Baking & Pastry Arts – CIP Code 12.0501

Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • A focus on safety around kitchen equipment, knives, and other tools and equipment found in the industry  
• Ability to tolerate heat  
• Ability to work in a fast-paced environment  
• Good personal hygiene  
• Stand for long periods of time |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of Average or above on:  
• Color Discrimination  
• Manual Dexterity  
• Numerical |
| **Reading & Language Arts Levels** | • 12th grade  
• Good oral communication skills  
• Reading comprehension – Recipes |
| **Math Levels** | • Decimals  
• Fractions  
• Percentages  
• Ratio and Proportion  
• Weights/measures  
• Word Problems/Metric |
| **Lecture Time** | • 7 hours/week |
| **Homework** | • 1 chapter per week with homework assignment-both math & baking  
• Daily during ServSafe |
| **Tasks Per Week** | • Varies |
| **Tests** | • 1 per week both math and baking |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work with a team to complete projects  
• Attention to detail  
• Creativity  
• Excellent eye/hand coordination and fine motor skills |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Cabinetmaking & Wood Technology – CIP Code 48.0703 (BT)
The following information is extremely important for you to know about this program.

- Manufacture custom furniture, cabinetry and millwork
- Operate state-of-the-art industrial machinery, computer controlled equipment, hand and power tools
- Earn valuable industry certifications in safety, tools, and equipment operations

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrate Knowledge of Lumber &amp; Cabinetmaking Materials</td>
<td>Textbooks: $110 (2 textbooks with online access)</td>
</tr>
<tr>
<td>Read Blueprints</td>
<td>Certification: ABC Registration- $25, OSHA- $25</td>
</tr>
<tr>
<td>Demonstrate the Proper Use of Hand Tools</td>
<td>Tools/Materials: $100 approx.</td>
</tr>
<tr>
<td>Perform Safe Sharpening Procedures</td>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Safety Rules for Stationary Power Equipment</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Demonstrate Proper Use of Stationary Power Equipment</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Demonstrate Portable Power Tool Safety</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Demonstrate Machining and Related Operations</td>
<td></td>
</tr>
<tr>
<td>Demonstrate Procedures for Cutting and Shaping Wood Components</td>
<td></td>
</tr>
<tr>
<td>Apply Various Glues and Adhesives</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabinetmaker and Installer</td>
<td>National Center for Construction Ed. &amp; Research Core Certification</td>
</tr>
<tr>
<td>Furniture Maker/Refinisher</td>
<td>Woodwork Manufacturing Skill Standards</td>
</tr>
<tr>
<td>Kitchen Installer</td>
<td></td>
</tr>
<tr>
<td>Millworker</td>
<td></td>
</tr>
<tr>
<td>Woodworking Machinery Operator</td>
<td></td>
</tr>
</tbody>
</table>
# Skill Alignment Chart for:
Cabinetmaking & Wood Technology – CIP Code 48.0703

Brownstown Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td>• Physical strength and stamina</td>
</tr>
<tr>
<td></td>
<td>• Ability to lift 50 lbs. overhead</td>
</tr>
<tr>
<td></td>
<td>• Ability to work independently</td>
</tr>
<tr>
<td></td>
<td>• No fear of heights or working in closed spaces</td>
</tr>
<tr>
<td></td>
<td>• Good eye/hand coordination</td>
</tr>
<tr>
<td>Vocational Testing (SAM)</td>
<td>Scores of average or above on:</td>
</tr>
<tr>
<td>Essential APTITUDES for this lab - Recommended levels</td>
<td>• Finger dexterity</td>
</tr>
<tr>
<td></td>
<td>• Manual dexterity</td>
</tr>
<tr>
<td></td>
<td>• Eye/hand/foot coordination</td>
</tr>
<tr>
<td></td>
<td>• Spatial</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• 10-11th grade level</td>
</tr>
<tr>
<td></td>
<td>• Follow oral and written instructions</td>
</tr>
<tr>
<td></td>
<td>• Technical reading</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• Ability to measure to the 32nd of an inch</td>
</tr>
<tr>
<td></td>
<td>• Ability to visualize in 3 dimensions</td>
</tr>
<tr>
<td></td>
<td>• Fractions, decimals and conversion of decimals and fractions</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• 30 minutes per day</td>
</tr>
<tr>
<td>Homework</td>
<td>• Minimal</td>
</tr>
<tr>
<td>Tasks Per Week</td>
<td>• 25+ tasks per marking period</td>
</tr>
<tr>
<td>Tests</td>
<td>• 3 Major tests/marking period</td>
</tr>
<tr>
<td></td>
<td>• NOCTI Assessment</td>
</tr>
<tr>
<td>POS Academics</td>
<td>• College level Public Speaking is a component of the LCCTC program</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Driver’s license strongly recommended</td>
</tr>
<tr>
<td></td>
<td>• Able to problem solve</td>
</tr>
<tr>
<td></td>
<td>• Teamwork</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**
**Clinical Care Assistant – CIP Code 51.0899 (WS)**
The following information is extremely important for you to know about this program.

- Be a driving force on a professional healthcare team delivering high quality patient care.
- Deliver basic patient care and perform therapeutic and diagnostic procedures in a hospital setting, physician’s office or home health agency.
- Practice ethical standards, confidentiality, and professionalism when interacting with patients, clients and co-workers.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Professionalism and Legal Issues</td>
<td><strong>Textbooks:</strong> $275 approx.</td>
</tr>
<tr>
<td>• Communication</td>
<td><strong>Certification:</strong> CPR- Healthcare Provider- $40+, Cost Varies</td>
</tr>
<tr>
<td>• Infection Control</td>
<td><strong>Tools/Materials:</strong> $30 approx.</td>
</tr>
<tr>
<td>• Emergency Care and Disaster Preparedness</td>
<td><strong>Uniforms:</strong> $80 approx.</td>
</tr>
<tr>
<td>• Human Needs and Human Development</td>
<td>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>• Moving, Lifting, and Positioning</td>
<td><strong>CTSO Fee:</strong> $20.00</td>
</tr>
<tr>
<td>• Health Care Provider Skills</td>
<td><strong>Clearances:</strong></td>
</tr>
<tr>
<td>• Nutrition and Hydration</td>
<td>• Prior to coming to LCCTC-</td>
</tr>
<tr>
<td>• Basic Structures and Functions of the Human Body &amp; Related Diseases with Associated Terminology</td>
<td>o Physical with lab testing (blood work), also hepatitis series (3 step), Tuberculin test- PPD (2 step) required by PA Law and Dept. of Health- <strong>Varies</strong></td>
</tr>
<tr>
<td>• Death &amp; Dying</td>
<td>o Possible charges for criminal background and drug screening (hospital currently covers the $55) FBI fingerprinting- <strong>$27.50</strong></td>
</tr>
<tr>
<td>• Medical Terminology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• ECG/EKG Technician</td>
<td>• Certified Patient Care Technician</td>
</tr>
<tr>
<td>• Patient Care Assistant – Acute Care</td>
<td>• American Heart Association- Heartsaver AED</td>
</tr>
<tr>
<td>• Pharmacist Assistant</td>
<td>• National Safety Council- Bloodborne &amp; Airborne Pathogens</td>
</tr>
<tr>
<td>• Phlebotomist</td>
<td>• American Heart Association-CPR</td>
</tr>
</tbody>
</table>
### Educational & Physical Attributes

<table>
<thead>
<tr>
<th>Program Safety &amp; Physical Considerations</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emotional and mental stability</td>
<td></td>
</tr>
<tr>
<td>Empathy to understand the pains and suffering of others</td>
<td></td>
</tr>
<tr>
<td>Good personal hygiene</td>
<td></td>
</tr>
<tr>
<td>Lift heavy objects/people</td>
<td></td>
</tr>
<tr>
<td>Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</td>
<td></td>
</tr>
<tr>
<td>Prolonged standing, bending, &amp; stooping</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</th>
<th>Scores of average or above on:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General learning</td>
</tr>
<tr>
<td></td>
<td>Manual &amp; finger dexterity</td>
</tr>
<tr>
<td></td>
<td>Verbal &amp; numerical</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reading &amp; Language Arts Levels</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>12th grade to College level English</td>
<td></td>
</tr>
<tr>
<td>Excellent oral and written communication skills (excellent spelling skills)</td>
<td></td>
</tr>
<tr>
<td>High reading comprehension</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Math Levels</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conversions</td>
<td></td>
</tr>
<tr>
<td>Fractions, decimals, percent's &amp; ratios</td>
<td></td>
</tr>
<tr>
<td>Height/weight</td>
<td></td>
</tr>
<tr>
<td>Intermediate Algebra (College level)</td>
<td></td>
</tr>
<tr>
<td>Metric system</td>
<td></td>
</tr>
<tr>
<td>Roman numerals</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lecture Time</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 hours daily</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Homework</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-3 hours daily</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tasks Per Week</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approximately 20 tasks per marking period</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tests</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-8 tests a week including performance tests and academics</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POS Academics</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>College level Public Speaking is a component of the LCCTC program</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Study &amp; Other Skills</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attention to detail extremely important</td>
<td></td>
</tr>
<tr>
<td>Basic computer and keyboarding skills</td>
<td></td>
</tr>
<tr>
<td>Demonstrate initiative, responsibility, and critical thinking skills</td>
<td></td>
</tr>
<tr>
<td>Excellent note taking and listening skills</td>
<td></td>
</tr>
<tr>
<td>Transportation for clinical</td>
<td></td>
</tr>
<tr>
<td>Good communication skills</td>
<td></td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.
Program Information for: Collision Repair –
CIP Code 47.0603 (WS)
The following information is extremely important for you to know about this program.

- Perform necessary processes using state of the art welding, refinishing, and painting equipment.
- Diagnose damage and estimate repairs to frame, unibody and suspension.
- Experience the thrill of repairing real vehicles to a pre-accident condition.

### Curriculum Outline

- Vehicle Design and Construction
- Panel Placement and Alignment
- Trim and Hardware
- Metal Finishing
- Body Fillers
- Glass and Hardware
- Structural Component Repair and Damage Analysis
- Structural Components
- Corrosion Protection
- Welding and Cutting
- Cutting Processes
- Surface Preparation, Refinishing, and Equipment
- Automotive Finishes

### Program Costs

- **Textbooks**: $130 approx.
- **Certification**: NATEF- $15
- **Tools/Materials**: $50 approx.
- **Uniforms**: $60 approx.
  - Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.
- **CTSO Fee**: $20.00
- **Clearances**: None

### Career Pathways

- Automotive Parts Salesperson
- Body Shop Supplies Salesperson
- Collision Technician
- Custom Accessories Installer
- Estimator
- Glass Installer
- Reconditioner

### Program Opportunities

- EPA- Spray Gun Certification
### Skill Alignment Chart for:
Collision Repair – CIP Code 47.0603
Willow Street Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program Safety &amp; Physical Considerations</strong></td>
<td>• A focus on safety around moving equipment, hand tools &amp; power tools&lt;br&gt;• Ability to work independently, read and follow directions&lt;br&gt;• Ability to work with strong smelling chemicals in dusty environment&lt;br&gt;• Any type of respiratory condition would be a concern&lt;br&gt;• Good eye/hand coordination&lt;br&gt;• Stamina to stand for long periods of time</td>
</tr>
</tbody>
</table>

**Vocational Testing (SAM)**<br>Essential APTITUDES for this lab - Recommended levels<br>Scores of average or above on:<br>• Eye/hand/foot coordination<br>• Finger and manual dexterity<br>• Form perception<br>• Spatial

| Reading & Language Arts Levels | • 12th Grade Level<br>• Good oral and written communication skills |
| Math Levels | • Basic Algebra<br>• Converting: fractions, decimals, ratios & percent’s<br>• Linear measurement, working with a ruler |

| Lecture Time | • 1 hour daily |
| Homework | • 1-2 chapters per week 1 hour an evening |
| Tasks Per Week | • 50 tasks during the first 12 weeks of school<br>• Rest of year live work |
| Tests | • 1 test per week<br>• Quizzes periodically |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to work independently and with a small group<br>• Excellent hand/eye coordination and attention to detail<br>• First aid<br>• Good writing skills<br>• Understanding basic electricity |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Commercial Art – CIP Code 50.0402 (BT)
The following information is extremely important for you to know about this program.

- Work directly with Advertising and Design Professionals.
- Experience the same hardware/software as professional illustrators, graphic designers, and art directors.
- Create high-impact art using traditional drawing tools and professional applications for advertising and marketing materials.

### Curriculum Outline
- Drawing and Illustration
- Color Theory and Application
- Digital Imaging
- Design, Layout and Production
- Typography
- Digital Photography
- Professional Practices

### Program Costs
- **Textbooks:** Provided online & by instructor
- **Certification:** Print Ed-$20
- **Tools/Materials:** $310 approx.
- **Uniforms:** $55 approx.
  - Students need to purchase more than 1 shirt/pants to comply with uniform cleanliness standards.
- **CTSO Fee:** $20.00
- **Clearances:** None

### Career Pathways
- Architectural Designer
- Corporate/Agency Art Director
- Design Studio Artist
- Desktop Publisher
- Exhibit/Set Designer
- Illustrator
- Interactive/Web Designer
- Interior Designer
- Layout/Production Artist Package Designer
- Sign Designer
- Web Page Designer
- Fashion Designer
- Animator
- Graphic Designer

### Program Opportunities
- **PrintEd Certification:** Advertising
Skill Alignment Chart for:
Commercial Art – CIP Code 50.0402
Brownstown Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to work independently  
• Depth perception  
• Excellent self-discipline to focus for long periods of time  
• Good eye/hand coordination  
• Stamina (ability to focus at work station for long periods of time)  
• Visual acuity |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Color Discrimination  
• Finger dexterity  
• Form/Perception/Clerical  
• Spatial |
| Reading & Language Arts Levels | • 11th grade level |
| Math Levels | • Addition, subtraction, multiplication, division, read a rule, manipulate fractions, decimals, percentages, and ratio and proportion |
| Lecture Time | • 1 hour per day |
| Homework | • Preparing for tests/project assignments |
| Tasks Per Week | • Approximately 21 tasks per marking period |
| Tests | • 1-2 tests per week |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to meet deadlines  
• Basic drafting knowledge  
• Computer background  
• Drawing ability and color keenness  
• Eye/hand coordination |

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Program Information for:
Commercial Construction/Management – CIP Code 46.0201 (MJ)
The following information is extremely important for you to know about this program.

- Construct building projects from site prep and layout to roofing and finish work.
- Operate the latest industry tools and equipment, including hand and power tools, excavation equipment, and safety gear.
- Develop valuable industry certifications in safety, tools, and equipment operations as well as apprenticeship.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Tools</td>
<td>Textbooks: Online access to text ($85) or Textbooks($180)</td>
</tr>
<tr>
<td>Power Tools</td>
<td>Certification: ABC Registration- <strong>$25</strong>, OSHA- <strong>$25</strong></td>
</tr>
<tr>
<td>Blueprints Reading</td>
<td>Additional Industry Certifications (optional)- <strong>Cost Varies</strong></td>
</tr>
<tr>
<td>Site Preparation and Layout</td>
<td>Tools/Materials: $72 approx.</td>
</tr>
<tr>
<td>V-footings and Foundations</td>
<td>Uniforms: $140 approx.</td>
</tr>
<tr>
<td>Framing- Floor Construction</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Framing- Wall Construction</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Framing- Roof Construction</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Exterior Finish</td>
<td></td>
</tr>
<tr>
<td>Interior Finish</td>
<td></td>
</tr>
<tr>
<td>Estimation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial &amp; Metal Stud Framer</td>
<td>National Center for Construction Ed &amp; Research</td>
</tr>
<tr>
<td>Commercial Construction Carpenter</td>
<td>OSHA</td>
</tr>
<tr>
<td>Commercial/Industrial Concrete Former</td>
<td>Hilti Power Certification</td>
</tr>
<tr>
<td>Drop Ceiling &amp; Insulation Installer</td>
<td>High Lift Operations Certification</td>
</tr>
<tr>
<td>Drywall Installer &amp; Finisher</td>
<td>Skid Loader Certification</td>
</tr>
<tr>
<td>Estimator</td>
<td></td>
</tr>
<tr>
<td>Finish Carpenter</td>
<td></td>
</tr>
<tr>
<td>Independent Contractor</td>
<td></td>
</tr>
<tr>
<td>Project/Construction Manager</td>
<td></td>
</tr>
<tr>
<td>Steel Erection</td>
<td></td>
</tr>
<tr>
<td>Superintendent</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
### Skill Alignment Chart for:
Commercial Construction/Management – CIP Code 46.0201

**Mount Joy Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to lift 50 lbs overhead  
• Ability to work in all weather conditions  
• Ability to work independently  
• Good eye/hand coordination  
• No fear of heights or working on closed spaces  
• Physical strength and stamina |

| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Eye/hand/foot coordination  
• Finger dexterity  
• Form perception  
• Manual dexterity  
• Spatial |

| Reading & Language Arts Levels | • Good reading and technical writing skills  
• Grade 10 reading level  
• Follow oral and written directions |

| Math Levels | • Excellent measurement skills  
• Strong basic math skills (addition, subtraction, multiplication & division) |

| Lecture Time | • 30 minutes to 1 hour per day |

| Homework | • Once a week |

| Tasks Per Week | • Approximately 30 tasks per marking period |

| Tests | • 3 Major tests/markings period  
• Quizzes |

| POS Academics | • College level Public Speaking is a component of the LCCTC program |

| Study & Other Skills | • Ability to work as a team player |

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Program Information for:
Computer Systems Technology – CIP Code 15.1202(BT)
The following information is extremely important for you to know about this program.

- Build, upgrade, maintain and repair desktop and laptop computers.
- Design, install, and troubleshoot computer network configurations.
- Perform custom work for clients: individuals, schools, and businesses.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrate Knowledge of Personal and Environmental Safety</td>
<td>Textbooks: $40-$80 approx.</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Computing Fundamentals</td>
<td>Certification: CompTIA A+ (2 tests)- $168, OSHA-$25</td>
</tr>
<tr>
<td>Use Productivity Software</td>
<td>CompTIA Network+ (optional)-$125</td>
</tr>
<tr>
<td>Demonstrate Internet Applications</td>
<td>Tools/Materials: $210 approx.</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Computer Hardware</td>
<td>Uniforms: $60 approx.</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Troubleshooting, Repair and Maintenance</td>
<td>— Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Operating Systems and Software</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Networking</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Security</td>
<td></td>
</tr>
<tr>
<td>Providing Customer Service</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Consultative Salesperson</td>
<td>CompTIA A+ Certification- Core</td>
</tr>
<tr>
<td>Field Service Technician</td>
<td>A+ Certification-Practical</td>
</tr>
<tr>
<td>Industry Technician for PC Support</td>
<td>Net+</td>
</tr>
<tr>
<td>Digital Home Technology Installer</td>
<td></td>
</tr>
<tr>
<td>Network Administrator</td>
<td></td>
</tr>
<tr>
<td>Repair Bench Technician</td>
<td></td>
</tr>
<tr>
<td>Server Technician</td>
<td></td>
</tr>
</tbody>
</table>
### Skill Alignment Chart for:
Computer Systems Technology – CIP Code 15.1202
Brownstown Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program Safety &amp; Physical Considerations</strong></td>
<td>• Ability to work independently</td>
</tr>
<tr>
<td></td>
<td>• Excellent self-discipline to focus for long periods of time</td>
</tr>
<tr>
<td></td>
<td>• Good eye/hand coordination</td>
</tr>
<tr>
<td></td>
<td>• Stamina (ability to focus at work station for long periods of time)</td>
</tr>
<tr>
<td><strong>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</strong></td>
<td>Scores of average or above on:</td>
</tr>
<tr>
<td></td>
<td>• Clerical perception</td>
</tr>
<tr>
<td></td>
<td>• Color discrimination</td>
</tr>
<tr>
<td></td>
<td>• Finger dexterity</td>
</tr>
<tr>
<td></td>
<td>• General learning</td>
</tr>
<tr>
<td><strong>Reading &amp; Language Arts Levels</strong></td>
<td>• 11th grade</td>
</tr>
<tr>
<td><strong>Math Levels</strong></td>
<td>• Basic</td>
</tr>
<tr>
<td><strong>Lecture Time</strong></td>
<td>• Minimum of 1-2 hours per day</td>
</tr>
<tr>
<td><strong>Homework</strong></td>
<td>• Various projects (infrequent)</td>
</tr>
<tr>
<td><strong>Tasks Per Week</strong></td>
<td>• Impromptu in-school PC repair</td>
</tr>
<tr>
<td></td>
<td>• Task grid-100 tasks: 20 exams, certification tests and certs</td>
</tr>
<tr>
<td><strong>Tests</strong></td>
<td>• 1 - 2 per week</td>
</tr>
<tr>
<td><strong>POS Academics</strong></td>
<td>• College level Public Speaking is a component of the LCCTC program</td>
</tr>
<tr>
<td><strong>Study &amp; Other Skills</strong></td>
<td>• Competent PC user (not expert)</td>
</tr>
<tr>
<td></td>
<td>• Detail oriented</td>
</tr>
<tr>
<td></td>
<td>• Excellent social skills for working with customers</td>
</tr>
<tr>
<td></td>
<td>• Logical/critical thinking capabilities</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for: Cosmetology – CIP  
Code 12.0401 (MJ/WS)
The following information is extremely important for you to know about this program.

- Interact with professional cosmetologists to develop the skills needed in preparation for state licensing exam and continuing education.
- Express individual creativity by providing a wide range of hair, nail and skin care experiences.
- Experience and manage professional full service interactive salon environment.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Sanitation</td>
<td>Textbooks: Included in Kit</td>
</tr>
<tr>
<td>• Shampooing the Hair</td>
<td>Certification: Industry Certification- $150, First Aid</td>
</tr>
<tr>
<td>• Fingerwaving</td>
<td>Certification- $6</td>
</tr>
<tr>
<td>• Braiding</td>
<td>Tools/Materials: Kit w/supplies and books- $505.69</td>
</tr>
<tr>
<td>• Wet Hair Styling</td>
<td>approx.</td>
</tr>
<tr>
<td>• Hair Cutting</td>
<td>Uniforms: $110 approx.</td>
</tr>
<tr>
<td>• Blow Drying and Curling</td>
<td>- Students need to purchase more than 1Shirt/Pants</td>
</tr>
<tr>
<td>• Hair Coloring</td>
<td>to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>• Permanent Waving</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Chemical Relaxing</td>
<td>Clearances:</td>
</tr>
<tr>
<td>• Thermal Straightening and Curling</td>
<td>- Letter of Verification for proof of education</td>
</tr>
<tr>
<td>• Skin Care</td>
<td>through 11th grade from High School – taken care of by CTC</td>
</tr>
<tr>
<td>• Nail Care</td>
<td></td>
</tr>
<tr>
<td>• Styling Wigs</td>
<td></td>
</tr>
<tr>
<td>• Client Services</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Career Pathways</td>
<td>Program Opportunities</td>
</tr>
<tr>
<td>• Color Technician</td>
<td>• After program completion: PA State</td>
</tr>
<tr>
<td>• Cosmetician</td>
<td>Board of Cosmetology- Cosmetologist</td>
</tr>
<tr>
<td>• Cosmetologist</td>
<td></td>
</tr>
<tr>
<td>• Cosmetology Teacher</td>
<td></td>
</tr>
<tr>
<td>• Hair Design</td>
<td></td>
</tr>
<tr>
<td>• Make-Up Artist</td>
<td></td>
</tr>
<tr>
<td>• Manicurist</td>
<td></td>
</tr>
<tr>
<td>• Salon Owner</td>
<td></td>
</tr>
<tr>
<td>• Texture Technician</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
# Skill Alignment Chart for:  
Cosmetology – CIP Code 12.0401  
Mount Joy/Willow Street Campuses

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Ability to stand for long periods of time  
• Ability to work with strong smelling chemicals (breathing and skin reactions)  
• Good hand/eye coordination  
• Willing to attend school over the summer after senior year of high school |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
• Color discrimination  
• Finger & manual dexterity  
• Verbal & numerical |
| **Reading & Language Arts Levels** | • 12th grade  
• Good oral and written communication skills |
| **Math Levels** | • Fractions, decimals, & basic geometry |
| **Lecture Time** | • 45 min -several hours daily depending on subject |
| **Homework** | • 1 chapter in study guide per week  
• 30 minutes daily |
| **Tasks Per Week** | • Approximately 10 per marking period-in addition to many repetitive practice skills |
| **Tests** | • 1 test a week, more frequently during the first 2 weeks of school |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Able to visualize finished product on clients(spatial)  
• Desire to be clean and organized  
• Desire to spend extra time (summer) at LCCTC to earn required hours for license  
• Enjoys working with people  
• Good attendance  
• Good eye/hand coordination |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Culinary Arts/Chef – CIP Code 12.0508 (MJ)
The following information is extremely important for you to know about this program.

- Plan, prepare and serve meals for upscale catered events and casual-to-fine dining restaurant service.
- Work side by side with professional chefs starting in the school kitchens and moving into professional placements.
- Prepare for job opportunities locally, abroad, and in exotic locations in the diverse culinary and hospitality industry.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchasing, Receiving and Storage Procedures</td>
<td>Textbooks: Textbook with ServSafe Certification $75</td>
</tr>
<tr>
<td>Demonstrate Skill in Garde Mange’</td>
<td>Certification: Certified Junior Culinarian (optional)-$35</td>
</tr>
<tr>
<td>Demonstrate Use and Care of Cutting Tools &amp; Utensils</td>
<td>approx.</td>
</tr>
<tr>
<td>Demonstrate Use and Care of Mechanical Food Preparation Equipment</td>
<td>Tools/Materials: Additional information in new student</td>
</tr>
<tr>
<td>Demonstrate How to Prepare Standardized Recipes</td>
<td>letter.</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Nutrition</td>
<td>Uniforms: $238 approx.</td>
</tr>
<tr>
<td>Prepare Breakfast Foods</td>
<td>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Prepare Vegetables and Fruits</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Prepare Pasta and Rice</td>
<td>Clearances: None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus Person</td>
<td>• ServSafe</td>
</tr>
<tr>
<td>Caterer</td>
<td>• American Culinary Federation</td>
</tr>
<tr>
<td>Deli Clerk</td>
<td>• Cook</td>
</tr>
<tr>
<td>Department Manager</td>
<td></td>
</tr>
<tr>
<td>Line Cook</td>
<td></td>
</tr>
<tr>
<td>Meat Buyer</td>
<td></td>
</tr>
<tr>
<td>Meat Cutter</td>
<td></td>
</tr>
<tr>
<td>Meat Processor</td>
<td></td>
</tr>
<tr>
<td>Prep Cook</td>
<td></td>
</tr>
<tr>
<td>Restaurant Host</td>
<td></td>
</tr>
<tr>
<td>Short Order Cook</td>
<td></td>
</tr>
<tr>
<td>Sous Chef</td>
<td></td>
</tr>
</tbody>
</table>
Skill Alignment Chart for:
Culinary Arts/Chef – CIP Code 12.0508
Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • A focus on preparing, holding and serving safe food  
• A focus on safety around kitchen equipment, knives, and other tools and equipment found in the industry  
• Ability to work in a fast-paced environment  
• Good personal hygiene  
• Stamina needed to stand for long periods of time |

| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Color discrimination  
• Finger dexterity  
• Manual dexterity  
• Verbal & numerical |

| Reading & Language Arts Levels | • 12th grade to college  
• Good oral communication skills |

| Math Levels | • 8th grade Math level  
• Basic measurements  
• Compute ratio, rate & percent’s  
• Decimals  
• Fractions  
• Percentages  
• Weights/measurements |

| Lecture Time | • 2 hours every Monday and Wednesday |

| Homework | • On average, 1 chapter/week and 1 workbook assignment/week and 1 chapter math w/test each week |

| Tasks Per Week | • 28/2 week rotation |

| Tests | • 1 test per week, culinary essentials, math, and ServSafe |

| POS Academics | • College level Public Speaking is a component of the LCCTC program |

| Study & Other Skills | • Ability to work with a team to complete projects  
• Creativity & Attention to detail  
• Excellent eye/hand coordination  
• Multi-tasking ability  
• Not afraid to get dirty  
• Students will daily: wash dishes/pots/pans, scrub floors, trash removal  
• Students will weekly: scrub hoods, scrub floor drains/trash cans, de-lime |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**  
**Dental Assistant – CIP Code 51.0601 (WS)**  
The following information is extremely important for you to know about this program.

- Experience the satisfaction of providing high quality patient care in a team-oriented, modern dental office environment.
- Perform a wide variety of dental office duties with other dental professionals that include taking x-rays, mixing materials, passing instruments, sterilization and receptionist duties.
- Work alongside other dental professionals to ensure patients receive the highest quality dental care.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
</table>
| Introduction to Dental Assisting  
Principles of Infection Control  
Safety and Emergency Procedures  
Ethical/Legal Responsibilities  
Anatomy and Physiology  
Office Procedures  
Pharmacology  
Radiology Skills  
Operative Dentistry (Chair Side Dentistry)  
Dental Materials  
Dental Laboratory Procedures  
Oral Surgery  
Periodontics  
Prosthodontics  
Endodontics  
Certifications | Textbooks: $196 approx.  
Certification: Radiology (mandatory)- $325, CPR (in class)- $10 approx., ICE exam (optional)- $175  
Tools/Materials: $45 approx.  
Uniforms: $65 approx.  
- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.  
CTSO Fee: $20.00  
Clearances:  
- Hepatitis series (3 step) recommended, Tetanus update required- **Cost Varies** |

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
</table>
| Dental assisting  
Dental claims evaluator for dental insurance companies  
Dental Front Office Receptionist  
Dental Sales Representative  
Dental Office Manager | American Heart Association – CPR  
Dental Assisting National Board – Radiation Health & Safety Exam  
Infection Control Exam  
Certified Dental Assistant (1 year after Graduation) |
### Skill Alignment Chart for:
**Dental Assistant – CIP Code 51.0601**

**Willow Street Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Emotional and mental stability  
• Good personal hygiene  
• Not disturbed by incidences such as bodily fluids, surgeries, injections  
• Prolonged standing, bending, & stooping |

| **Vocational Testing (SAM)** Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Finger dexterity  
• General learning  
• Manual dexterity  
• Spatial  
• Verbal |

| **Reading & Language Arts Levels** | • 12th grade |

| **Math Levels** | • Measurements of volume and proportion  
• Metric decimals  
• Exposure to business accounting or bookkeeping |

| **Lecture Time** | • 2 ½ - 3 hours daily |

| **Homework** | • Review and master the lecture notes from the day and read required accompanying textbook pages. Study Time – approx. 1-2 hours per night. |

| **Tasks Per Week** | • 25 tasks per marking period |

| **Tests** | • Approx. 3 tests per week |

| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |

| **Study & Other Skills** | • Ability to work as a team member to complete projects  
• Attention to detail extremely important  
• Basic keyboarding skills  
• Excellent communication skills  
• Excellent study skills/Dedication to field  
• Good personality and excellent hygiene  
• Problem solver  
• Self-motivated/Initiative  
• Transportation needed for clinical |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Diesel Equipment Technology – CIP Code 47.0613(WS)
The following information is extremely important for you to know about this program.

- Use the same advanced diagnostic equipment and repair equipment as master technicians to troubleshoot and repair commercial vehicles.
- Perform preventative maintenance and inspection on medium- and heavy-duty trucks.
- Maintain and operate today’s high tech vehicle’s computer systems.

Curriculum Outline
- Tools and Fasteners/Hardware
- Suspension and Steering Systems
- Preventive Maintenance
- Brake System
- Demonstrate the Knowledge of the Engine
- Air Intake and Exhaust Systems
- Demonstrate Knowledge of Cooling System
- Fuel System
- Electrical/Electronic Systems
- Drive Line

Program Costs
Textbooks: $200 approx.
Certification: OSHA- $5, Additional Industry certifications- No Fee
Tools/Materials: Driver’s license highly recommended. Additional information in new student letter.
Uniforms: $60 approx.
   - Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.
CTSO Fee: $20.00
Clearances: None

Career Pathways
- Diesel Truck Line Mechanic
- Engine Specialist
- Equipment/Parts Salesperson
- Hydraulic Systems Specialist
- Industrial/Farm Equipment Mechanic
- Marine Mechanic
- Power Generation Mechanic
- Preventive Maintenance Mechanic
- Suspension/Driveline Specialist

Program Opportunities
- PA State Inspection- Certified Safety Category III Inspector
- OSHA

Revised 09/2016
### Skill Alignment Chart for:
**Diesel Equipment Technology – CIP Code 47.0613**

**Willow Street Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry  
• Ability to diagnose the source of a problem quickly and accurately  
• Ability to work in tight spaces  
• Ability to work independently, read and follow directions  
• Stamina to stand for long periods of time |
| **Vocational Testing (SAM)** Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Color discrimination  
• Eye/hand/foot coordination  
• Finger and manual dexterity  
• Form perception  
• Spatial |
| **Reading & Language Arts Levels** | • 9th-12th grade or higher tech manuals, 13th-14th year levels  
• Good oral and written communication skills |
| **Math Levels** | • Basic math  
• Fractions, decimals, percent’s  
• Measuring devices to 1/10000 inch  
• Standard measurement  
• Weights |
| **Lecture Time** | • 1-3 hours daily |
| **Homework** | • 2-3 hours a week |
| **Tasks Per Week** | • Approximately 27 tasks per marking period |
| **Tests** | • 3-4 tests a week with quizzes |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work as a team  
• Background electrical knowledge  
• Basic computer skills  
• Clean drivers record  
• Transportation suggested |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Digital Design/Print Media – CIP Code 10.0399 (BT)
The following information is extremely important for you to know about this program.

- Work side by side with graphics industry professionals.
- Create projects and art works on state of the art equipment.
- Design printing works using various techniques.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Job Production Management</td>
<td>Textbooks: Manual/Tutorials- Provided to students</td>
</tr>
<tr>
<td>• Art and Copy Preparation</td>
<td>Certification: 2 PrintEd tests (mandatory)- $10, 2 tests (optional)- $10</td>
</tr>
<tr>
<td>• Electronic Imaging</td>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>• Image Acquisition and Manipulation</td>
<td>Uniforms: $55 approx.</td>
</tr>
<tr>
<td>• Platemaking</td>
<td>Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>• Press</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Bindery</td>
<td>Clearances: None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Bindery Operator</td>
<td>• PrintEd Certification: Graphic Communications</td>
</tr>
<tr>
<td>• Customer Service</td>
<td></td>
</tr>
<tr>
<td>• Digital Press Technician</td>
<td></td>
</tr>
<tr>
<td>• Duplicator Operator</td>
<td></td>
</tr>
<tr>
<td>• Estimator</td>
<td></td>
</tr>
<tr>
<td>• Folder Operator</td>
<td></td>
</tr>
<tr>
<td>• Multi-Color Press Operator</td>
<td></td>
</tr>
<tr>
<td>• Pre-press Technician</td>
<td></td>
</tr>
<tr>
<td>• Wide Format Operator</td>
<td></td>
</tr>
</tbody>
</table>
## Skill Alignment Chart for:
Digital Design/Print Media – CIP Code 10.0399
Brownstown Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • A focus on safety around moving equipment  
  • Color Vision  
  • Depth perception  
  • Good manual dexterity  
  • Stamina including focus at work station for long periods of time including standing or sitting for long periods of time  
  • Visual acuity |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
  • Color discrimination  
  • Finger dexterity  
  • Form perception/clerical  
  • Spatial |
| **Reading & Language Arts Levels** | • 11th grade level  
  • Good oral and written communication |
| **Math Levels** | • Good measurement skills  
  • Manipulation of fractions, decimals, and ability to use percentages and proportions |
| **Lecture Time** | • 1 hour per day |
| **Homework** | • Preparing for tests  
  • Print PDF’s of curriculum |
| **Tasks Per Week** | • Approximately 21 tasks per marking period |
| **Tests** | • 1-2 tests per week |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to meet deadlines  
  • Ability to work independently and with small groups  
  • Able to work with color  
  • Art/drawing courses  
  • Basic drafting knowledge  
  • Basic word processing skills  
  • Computer courses-Programming  
  • Desktop application, Graphics computer skills  
  • Strong need for attention to detail and mechanical aptitude |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.
Program Information for:
Early Childhood Education – CIP Code 19.0708 (MJ)
The following information is extremely important for you to know about this program.

- Explore the early childhood profession by interacting with infants, toddlers, preschoolers and elementary school children in our modern daycare center.
- Create a professional portfolio for college and careers in early childhood education.
- Design, develop, and deliver early learning activities.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Professionalism</td>
<td>Textbooks: $25 approx.</td>
</tr>
<tr>
<td>• Health and Safety</td>
<td>Certification: Additional Industry Certifications- $15+, Cost Varies</td>
</tr>
<tr>
<td>• Learning Environment (Physical Space)</td>
<td>Tools/Materials: $150 approx.</td>
</tr>
<tr>
<td>• Child Development (Social, Emotion, Physical,</td>
<td>Uniforms: $65 approx.</td>
</tr>
<tr>
<td>Intellectual, Language Development)</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with</td>
</tr>
<tr>
<td>• Classroom Management and Positive Guidance</td>
<td>uniform cleanliness standards.</td>
</tr>
<tr>
<td>• Standards, Curriculum, and Assessment</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Curriculum Development</td>
<td>- State Police Criminal Record Check- $10</td>
</tr>
<tr>
<td>• Learning Activates/Experiences</td>
<td>- DPW Child Abuse- $10</td>
</tr>
<tr>
<td>• Program Partnerships</td>
<td>- 3 written references</td>
</tr>
<tr>
<td>• Clinical Experience</td>
<td>- Medical physical with TB test- <strong>Student Cost Varies</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Assistant Group Supervisor</td>
<td>• Bureau of C&amp;T- CDA Ready Certification</td>
</tr>
<tr>
<td>• Child Care Aide</td>
<td>• Pediatric First Aid for Caregivers and Teachers Certification</td>
</tr>
<tr>
<td>• Child Care Director</td>
<td>• Department of Public Welfare- Assistant Group Supervisor Certification</td>
</tr>
<tr>
<td>• Elementary Teacher</td>
<td></td>
</tr>
<tr>
<td>• Family/Group Day Care Provider</td>
<td></td>
</tr>
<tr>
<td>• Group Supervisor</td>
<td></td>
</tr>
<tr>
<td>• Learning Support Teacher</td>
<td></td>
</tr>
<tr>
<td>• Nanny</td>
<td></td>
</tr>
<tr>
<td>• Primary Classroom Aide</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
**Skill Alignment Chart for:**
Early Childhood Education – CIP Code 19.0708
Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | - Ability to lift 30 lbs
- Good physical health (current physical & TB test required)
- Personal cleanliness
- Prolonged standing, bending, stooping, walking, running, and sitting on the floor and in a child-sized chair
- Ability to negotiate the classroom environment
- Sit in close proximity to children
- Visual and auditory acuity for classroom observation and management |
| Vocational Testing (SAM) | Scores of average or above on:
- Clerical perception
- Color discrimination
- Finger and manual dexterity
- Motor coordination |
| Essential APTITUDES for this lab - Recommended levels | |
| Reading & Language Arts Levels | - College level
- Good oral & written communications skills
- Technical writing skills |
| Math Levels | - College level |
| Lecture Time | - Varies |
| Homework | - 1-3 hours per evening |
| Tasks Per Week | - 30 tasks per marking period |
| Tests | - 10 to 15 tests per year; class is project oriented |
| POS Academics | - College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | - A strong desire to work with children
- Ability to demonstrate initiative
- Ability to work independently
- Child development classes
- Classes in general psychology
- Computer skills
- Excellent organizational and time management skills
- Must be self-motivated
- Neat appearance & excellent personal hygiene
- Think and be creative
- Understand the importance of confidentiality
- Appreciation of cultural diversity |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Electrical Construction Technology – CIP Code 46.0399 (BT)
The following information is extremely important for you to know about this program.

- Interact with electrical industry experts.
- Develop skills and knowledge needed to build electrical systems.
- Design and construct electrical systems in homes and businesses.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Principles</td>
<td>Textbooks: Two textbooks plus on-line guide- $180</td>
</tr>
<tr>
<td>Residential Wiring</td>
<td>Certification: OSHA- $25, ABC Registration- $25</td>
</tr>
<tr>
<td>Commercial Wiring and Motors</td>
<td>Tools/Materials: $140 approx.</td>
</tr>
<tr>
<td>Industrial Motor Control</td>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>Industry Certifications</td>
<td>Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
</tbody>
</table>
<pre><code>                                                                                       |
</code></pre>
<p>|                                              | CTSO Fee: $20.00                                   |
|                                              | Clearances: None                                   |</p>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial/Industrial Electrician</td>
<td>National Center for Construction Ed &amp; Research</td>
</tr>
<tr>
<td>Electrical Distributor Salesperson</td>
<td></td>
</tr>
<tr>
<td>Line Worker</td>
<td></td>
</tr>
<tr>
<td>Residential Electrical Contractor</td>
<td></td>
</tr>
<tr>
<td>Residential Electrician</td>
<td></td>
</tr>
</tbody>
</table>
**Skill Alignment Chart for:**
**Electrical Construction Technology – CIP Code 46.0399**

**Brownstown Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Ability to lift 50 lbs. overhead  
• Ability to work in all weather conditions  
• Ability to work independently  
• Good eye/hand coordination  
• No fear of heights or working in closed spaces  
• Physical strength and stamina |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
• Eye/hand/foot coordination  
• Finger dexterity  
• Form  
• Good color discrimination  
• Manual dexterity  
• Spatial |
| **Reading & Language Arts Levels** | • Follow oral and written instructions  
• Technical reading skills  
• Text written on a 12th grade level |
| **Math Levels** | • Fractions, decimals, and basic geometry |
| **Lecture Time** | • 1 hour per day |
| **Homework** | • Student is allotted time in class to complete assignments. If not completed in class, work must be completed at home. |
| **Tasks Per Week** | • 30 tasks per marking period |
| **Tests** | • 12 per marking period |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work with others  
• Able to problem solve |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Electro-Mechanical Engineering Technology – CIP Code 15.0403 (MJ)
The following information is extremely important for you to know about this program.

- Design, invent, and develop a vast array of electro-mechanical simulations for a dynamic experience.
- Interactive lab provides an opportunity to use robotics, hydraulic-pneumatic, and electrical technology systems.
- Analyze, diagnose, maintain, and repair electro-mechanical systems

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interpret Electrical Symbols on Blueprints and Schematics</td>
<td>Textbooks/Certification: On-line course and OSHA certification- $325</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Basic Electricity</td>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>Measure Components of Electrical Systems</td>
<td>Uniforms: $40 approx.</td>
</tr>
<tr>
<td>Use the National Electrical Code (NEC) Reference Book</td>
<td>Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Electrical Resistance</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Direct Current (D.C.) Motors</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Demonstrate Knowledge of Inductance and Capacitance</td>
<td></td>
</tr>
<tr>
<td>Demonstrate Knowledge of Alternating Current (A.C.) Motors</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Technician</td>
<td>AMIST Certification</td>
</tr>
<tr>
<td>Electro-Mechanical Technician</td>
<td>OSHA</td>
</tr>
<tr>
<td>Industrial Engineering Technician</td>
<td></td>
</tr>
<tr>
<td>Industrial Maintenance Technician</td>
<td></td>
</tr>
<tr>
<td>Industrial Automation Technician</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
### Skill Alignment Chart for:
**Electro-Mechanical Engineering Technology – CIP Code 47.0303**

**Mount Joy Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Ability to understand and follow safety procedures  
• Ability to work independently, read and follow directions  
• Able to lift 50lbs to a height of 40 inches  
• Good eye/hand coordination  
• Stamina to stand for long periods of time |
| **Vocational Testing (SAM)** Essential APTITUDES for this lab - Recommended levels | Scores of Average or above on:  
• Color Discrimination  
• Finger and Manual Dexterity  
• Numerical  
• Spatial |
| **Reading & Language Arts Levels** | • College Level |
| **Math Levels** | • Algebra I  
• Geometry  
• Measurement of fractions, decimals, and percent’s. Compute ratio, rate, percent’s and work with formulas |
| **Lecture Time** | • Approximately 90 minutes daily |
| **Homework** | • Take home, if needed  
• Time in class |
| **Tasks Per Week** | • Individualized lists according to job desired |
| **Tests** | • 1 per week |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work with a team to complete projects  
• Basic computer skills  
• Good eye/hand coordination  
• Good fine motor, spatial, and form perception  
• Mechanical aptitude and critical thinking skills  
• Science |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Event Planning & Tourism Services Management – CIP Code 52.1905 (MJ)
The following information is extremely important for you to know about this program.

- Deliver superior customer service to hotel and event guests.
- Team with industry professionals to plan and assemble upscale events and experiences.
- Design promotional flyers and presentations.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Hospitality Industry</td>
<td>Textbooks: Provided by instructor</td>
</tr>
<tr>
<td>Guest Relations/Concierge</td>
<td>Certifications: Industry Certifications- $60</td>
</tr>
<tr>
<td>Understanding Hospitality Marketing</td>
<td>Tools/Materials: $20 approx.</td>
</tr>
<tr>
<td>The Marketing Department</td>
<td>Uniforms: $170 approx.</td>
</tr>
<tr>
<td>Marketing to Organizations</td>
<td>Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Safety of the Job in Hospitality</td>
<td></td>
</tr>
<tr>
<td>Cashier</td>
<td></td>
</tr>
<tr>
<td>Travel and Tourism</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Legal and Ethical Responsibilities in Hospitality Management</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Front Office Organization</td>
<td></td>
</tr>
<tr>
<td>Rooms, Bedding, and Rates</td>
<td></td>
</tr>
<tr>
<td>The Reservation Function</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Desk Agent/Supervisor</td>
<td>Amer. Hotel &amp; Lodging Ed Inst- Cert Rooms Division Specialist (CRDS)</td>
</tr>
<tr>
<td>Housekeeping Inspector/Supervisor</td>
<td></td>
</tr>
<tr>
<td>Marketing &amp; Sales Representative</td>
<td></td>
</tr>
<tr>
<td>Reservations Agent</td>
<td></td>
</tr>
<tr>
<td>Night Auditor</td>
<td></td>
</tr>
<tr>
<td>Catering Representative</td>
<td></td>
</tr>
<tr>
<td>Event Planner</td>
<td></td>
</tr>
<tr>
<td>Vacation Planner</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
### Skill Alignment Chart for:  
**Event Planning & Tourism Services Management – CIP Code 52.1905**  
**Mount Joy Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to lift 30 lbs  
• Good physical health  
• Personal cleanliness  
• Prolonged standing, bending, & stooping |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Clerical perception  
• General learning  
• Verbal |
| Reading & Language Arts Levels | • 12th grade  
• Excellent oral communications skills  
• Public speaking  
• Technical writing skills |
| Math Levels | • Basic Algebra and business math |
| Lecture Time | • Varies |
| Homework | • 1-2 chapters a week |
| Tasks Per Week | • 20-35 tasks per marking period |
| Tests | • 1 test/week |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to work with a team to complete projects  
• Basic accounting  
• Basic computer skills  
• Classes in Family & Consumer Sciences  
• Creativity  
• Excellent personal hygiene  
• Strong attention to detail |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor.**
Program Information for:
Heavy Equipment Operations & Basic Maintenance – CIP Code 49.0202 (BT)
The following information is extremely important for you to know about this program.

- Operate, troubleshoot, and maintain heavy equipment.
- Interpret blueprints and site plans for site development.
- Collaborate and perform heavy equipment-related activities in a team setting.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Tools</td>
<td>Textbooks: Two textbooks with online access- $180</td>
</tr>
<tr>
<td>Introduction for Power Tools</td>
<td>Certifications: ABC Registration- $25, OSHA Forklift- TBD</td>
</tr>
<tr>
<td>Basic Rigging- Objectives and Performance Tasks</td>
<td>Tools/Materials: $25 approx.</td>
</tr>
<tr>
<td>Employability Skills</td>
<td></td>
</tr>
<tr>
<td>Heavy Equipment Safety</td>
<td></td>
</tr>
<tr>
<td>Preventative Maintenance</td>
<td></td>
</tr>
<tr>
<td>Major Division 8 Grades</td>
<td></td>
</tr>
<tr>
<td>Major Division 9 Dump Trucks</td>
<td></td>
</tr>
<tr>
<td>Vibratory Rollers</td>
<td></td>
</tr>
<tr>
<td>Skid-Steer Loaders</td>
<td></td>
</tr>
<tr>
<td>Crawler Loaders</td>
<td></td>
</tr>
<tr>
<td>Wheel Loaders</td>
<td></td>
</tr>
<tr>
<td>Dozers</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact Equipment Operator</td>
<td>OSHA</td>
</tr>
<tr>
<td>Concrete Technician</td>
<td>Penn Dot Flagger Certification</td>
</tr>
<tr>
<td>Heavy Equipment Mechanics Helper</td>
<td>National Center for Construction Education and Research</td>
</tr>
<tr>
<td>Highway Construction Inspector</td>
<td></td>
</tr>
<tr>
<td>Highway Construction Laborer</td>
<td></td>
</tr>
<tr>
<td>Highway Maintenance Worker</td>
<td></td>
</tr>
<tr>
<td>Large-size Equipment Operator</td>
<td></td>
</tr>
<tr>
<td>Mid-size Equipment Operator</td>
<td></td>
</tr>
<tr>
<td>Project Planner</td>
<td></td>
</tr>
<tr>
<td>Site-Prep Apprentice</td>
<td></td>
</tr>
<tr>
<td>Surveying Apprentice</td>
<td></td>
</tr>
<tr>
<td>Traffic Technician</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
### Skill Alignment Chart for:
**Heavy Equipment Operations & Basic Maintenance – CIP Code 49.0202**

**Brownstown Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • A focus on safety in and around earth moving equipment  
• Ability to diagnose the source of a problem quickly and accurately  
• Ability to work independently, read and follow directions  
• Good eye/hand coordination  
• Stamina to stand for long periods of time  
• Willingness to work in all kinds of weather |
| **Vocational Testing (SAM)** Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Eye/hand/foot coordination  
• Finger and manual dexterity  
• Form perception  
• Spatial |
| **Reading & Language Arts Levels** | • College |
| **Math Levels** | • Compute ratio, rate and percent  
• Measurements of fractions, decimals & percent's  
• Standard measurement  
• Tape measurement reading to the 16th of an inch |
| **Lecture Time** | • Every day 9:00 – 11:30AM |
| **Homework** | • On average 1 hour an evening |
| **Tasks Per Week** | • Approximately 40 tasks per marking period |
| **Tests** | • 3-4 tests a week (Hands-on/written) |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work independently  
• Ability to work with a team to complete projects  
• Compute ratio, rate, and percent  
• Critical thinking skills  
• Detail oriented  
• Excellent computer skills |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.
**Program Information for: HVAC/R – CIP**  
**Code 47.0201 (BT) (Heating/Ventilation/Air Conditioning/Refrigeration)**  
The following information is extremely important for you to know about this program.

- Work side by side with experienced HVAC industry professionals.
- Analyze and upgrade climate control systems to the ever changing HVAC field.
- Install, maintain, and repair air conditioning and heating equipment.

### Curriculum Outline

- Tools for HVAC/R
- Blueprint Reading
- Piping Practices
- Basic Electricity
- Introduction to Cooling
- Introduction to Heating
- Air Distribution Systems
- Introduction to Hydronic Systems
- Leak Detection, Evacuation, Recovery and Charging
- Troubleshooting Gas Heating
- Troubleshooting Cooling
- Heat Pumps
- Computer Fundamentals

### Program Costs

- Textbooks: $173  
  - Certifications: ABC Registration- $25, OSHA- $25, EPA- $45  
  - Tools/Materials: Additional information in new student letter.  
  - Uniforms: $80 approx.

  - Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.

- CTSO Fee: $20.00
- Clearances: None

### Career Pathways

- Air Conditioning Installer
- Duct Installer
- General HVAC Technician
- Heat Pump Technician
- Oil/Gas Burner Technician
- Pipe Fitter
- Electrical/Climate Control Technician

### Program Opportunities

- National Center for Construction Ed & Research  
- AC & R Institute- EPA 608 Certification

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### Skill Alignment Chart for:
HVAC/R – CIP Code 47.0201
(Heating/Ventilation/Air Conditioning/Refrigeration)

**Brownstown Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to lift 50 lbs overhead  
• Ability to work in all weather conditions  
• Ability to work independently  
• Good eye/hand coordination  
• No fear of heights or working on closed spaces  
• Physical strength and stamina |
| Vocational Testing (SAM)                | Scores of average or above on:  
• Color Discrimination  
• Eye/hand/foot coordination  
• Spatial |
| Essential APTITUDES for this lab - Recommended levels | • Follow oral and written instructions  
• Technical reading & writing  
• Text written on a 12th grade level |
| Reading & Language Arts Levels          | • Follow oral and written instructions  
• Technical reading & writing  
• Text written on a 12th grade level |
| Math Levels                             | • Fractions and decimals  
• Geometry  
• Measurements  
• Whole numbers |
| Lecture Time                            | • 1.5 - 2 hours per day |
| Homework                                | • In School assignments (Contren, task, vocabulary) |
| Tasks Per Week                          | • 20 tasks per marking period |
| Tests                                   | • Average 10 tests per marking period |
| POS Academics                           | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills                    | • Ability to visualize in 3 dimensions  
• Attention to detail  
• Extensive problem solving  
• Strong attention to detail  
• Willingness to do work outside of classroom, especially studying |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.
Program Information for:
Medical Administrative Assistant – CIP Code 51.0707 (WS)
The following information is extremely important for you to know about this program.

- Perform computerized medical office operations in scheduling, billing, and medical records.
- Be a driving force on a professional healthcare team by delivering high quality customer service while performing clerical and other administrative duties in medical centers, physician offices, and hospitals.
- Practice ethical standards, confidentiality, and professionalism when interacting with patients, coworkers, and other medical professionals.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Infection Control</td>
<td>Textbooks: $350 approx.</td>
</tr>
<tr>
<td>• Office Technology</td>
<td>Certifications: CEHRS (optional)- $105,</td>
</tr>
<tr>
<td>• The Eco-Friendly Medical Office</td>
<td>CMAA (optional)- $105, CBCS (optional)-</td>
</tr>
<tr>
<td>• Medical Terminology with Anatomy &amp;</td>
<td>$105</td>
</tr>
<tr>
<td>Physiology</td>
<td>Tools/Materials: Additional information</td>
</tr>
<tr>
<td>• Medical Law &amp; Ethics</td>
<td>in new student letter.</td>
</tr>
<tr>
<td>• Medical Receptionist Skills</td>
<td>Uniforms: $77 approx.</td>
</tr>
<tr>
<td>• Medical Records</td>
<td>- Students need to purchase more than</td>
</tr>
<tr>
<td>• Electronic Health Records</td>
<td>1 Shirt/Pants to comply with uniform</td>
</tr>
<tr>
<td>• Fees, Credit, and Collection</td>
<td>cleanliness standards.</td>
</tr>
<tr>
<td>• Health Insurance Systems, Coding,</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Billing</td>
<td>Clearances:</td>
</tr>
<tr>
<td>• Medical Transcription</td>
<td>• CPR Certification must have by Dec.-</td>
</tr>
<tr>
<td>• Pharmacology</td>
<td>Cost Varies</td>
</tr>
<tr>
<td>• Practice Management Program (PMP)</td>
<td>• Criminal Background Check- $10</td>
</tr>
<tr>
<td>Software</td>
<td>• Physical with Tuberculin Test- PPD</td>
</tr>
<tr>
<td></td>
<td>(required by PA Law and Dept. of Health)</td>
</tr>
<tr>
<td></td>
<td>• Cost Varies</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Medical Coding Specialist</td>
<td>• AHA Heartsaver CPR Certification</td>
</tr>
<tr>
<td>• Medical Insurance/Reimbursement</td>
<td>• Bloodborne &amp; Airborne Pathogens</td>
</tr>
<tr>
<td>Specialist</td>
<td>Certification.</td>
</tr>
<tr>
<td>• Medical Records Technician</td>
<td>• After graduation students are eligible to take:</td>
</tr>
<tr>
<td>• Medical Scheduler</td>
<td>o Certified Billing and Coding Specialist</td>
</tr>
<tr>
<td>• Medical Secretary</td>
<td>o Certified Medical Administrative</td>
</tr>
<tr>
<td>• Medical Transcriptionist/Editor</td>
<td>Assistant</td>
</tr>
<tr>
<td>• Patient Registration</td>
<td>o Certified Electronic Health</td>
</tr>
<tr>
<td></td>
<td>Records Specialist</td>
</tr>
<tr>
<td></td>
<td>o (These are through the National</td>
</tr>
<tr>
<td></td>
<td>Health Career Association)</td>
</tr>
</tbody>
</table>

Revised 09/2016
### Skill Alignment Chart for:
**Medical Administrative Assistant – CIP Code 51.0707**

**Willow Street Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Ability to work independently  
• Excellent self-discipline to focus for long periods of time  
• Stamina (ability to focus at work station for long periods of time) |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
• Clerical perception  
• Finger dexterity  
• General learning  
• Numerical  
• Verbal |
| **Reading & Language Arts Levels** | • College  
• Strong grammar and punctuation skills |
| **Math Levels** | • Accounting/basic math  
• Roman numerals  
• Understand numbers for numericfiling |
| **Lecture Time** | • 2+ hours daily |
| **Homework** | • 1-3 hours daily |
| **Tasks Per Week** | • 25 tasks per marking period |
| **Tests** | • 2-4 tests per week |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work independently  
• Attention to detail extremely important  
• Computer skills in area of word-processing  
• Excellent keyboarding skills  
• Good attendance  
• Transportation for clinical |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**
**Medical Assistant – CIP Code 51.0801 (WS)**
The following information is extremely important for you to know about this program.

- Apply advanced diagnostic procedures to patient care such as phlebotomy and pharmacology; assist in minor office surgeries.
- Participate in a 7 week medical assistant externship in a medical facility.
- Be a driving force on a professional healthcare team delivering high quality patient care.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Medical Assistant Administrative Functions</td>
<td>Textbooks: $350 approx.</td>
</tr>
<tr>
<td>- Pharmacology</td>
<td>Certifications: CMA- $149</td>
</tr>
<tr>
<td>- Infection Control</td>
<td>Tools/Materials: $70 approx.</td>
</tr>
<tr>
<td>- Introduction to Medical Laboratory Techniques</td>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>- Introduction to Human Wellness and Disease</td>
<td>Students need to purchase more than 1 Shirt/Pants</td>
</tr>
<tr>
<td>- Healthcare Law and Ethics</td>
<td>to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>- Introduction to Medical Insurance and Managed Care</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>- Concepts of Effective Communication</td>
<td><strong>Clearances:</strong></td>
</tr>
<tr>
<td>- Introduction to Human Biology</td>
<td>- CPR Certification- <strong>$60, CostVaries</strong></td>
</tr>
<tr>
<td>- Introduction to Computer Application</td>
<td>- Criminal Background Check- <strong>$10</strong></td>
</tr>
<tr>
<td>- Medical Assistant Clinical Laboratory Procedures</td>
<td>- Physical exam with immunization- MMR(2), Varcello</td>
</tr>
<tr>
<td>- Safety and Emergency Practices</td>
<td>(only if no records exist), Hepatitis series</td>
</tr>
<tr>
<td>- Medical Assisting Externship</td>
<td>(3 step), Tuberculin test PPD (required by PA Law</td>
</tr>
<tr>
<td>- Professional Development</td>
<td>and Dept. of Health), Drug Screening (only if office</td>
</tr>
<tr>
<td></td>
<td>requires for clinical experience)- <strong>CostVaries</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Administrative Medical Assistant</td>
<td>- AHA American Heartsaver First Aid Certification</td>
</tr>
<tr>
<td>- Clinical Medical Assistant</td>
<td>- AHA CPR for Healthcare Provider with AED</td>
</tr>
<tr>
<td>- EKG Technician</td>
<td>- American Red Cross Community First Aide and</td>
</tr>
<tr>
<td>- Hospital Unit Secretary</td>
<td>Safety</td>
</tr>
<tr>
<td>- Phlebotomist</td>
<td>- NHA Certified ECG/EKG Technician</td>
</tr>
<tr>
<td></td>
<td>- NHA Certified Phlebotomy Tech</td>
</tr>
<tr>
<td></td>
<td>- NHA Certified Clinical Medical Assistant</td>
</tr>
</tbody>
</table>
# Skill Alignment Chart for:
## Medical Assistant – CIP Code 51.0801

**Willow Street Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety Physical Considerations**        | • Emotional and mental stability  
• Empathy to understand the pains and suffering of others  
• Good personal hygiene  
• Lift heavy objects/people  
• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations  
• Prolonged standing, bending, & stooping |
| **Vocational Testing (SAM)**                       | **Essential APTITUDES for this lab - Recommended levels**  
Scores of average or above on:  
• General learning  
• Manual & finger dexterity  
• Verbal |
| **Reading & Language Arts Levels**                | • 12th Grade                                                                                                                                 |
| **Math Levels**                                  | • Basic math  
• Fractions, decimals, percentages, ratios  
• Medical math for drug dosing |
| **Lecture Time**                                 | • 3 hours daily                                                                                                                                  |
| **Homework**                                     | • 2 hours daily                                                                                                                                  |
| **Tasks Per Week**                               | • 20 tasks per marking period                                                                                                                     |
| **Tests**                                        | • 5-6 tests a week                                                                                                                               |
| **POS Academics**                                | • College level Public Speaking is a component of the LCCTC program                                                                                     |
| **Study & Other Skills**                         | • Ability to work with a team to complete projects  
• Attention to detail extremely important  
• Excellent communication and critical thinking skills  
• Good attendance  
• Keyboarding skills  
• Transportation needed for clinical |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**  
**Nursing Assistant/Home Health Aide – CIP Code 51.0899 (WS)**  
The following information is extremely important for you to know about this program.

- Experience the passion of providing high quality patient care in a long term care facility and private home setting.
- Perform a wide range of basic nursing skills, personal care skills, and enhanced dining experiences in a classroom and real world setting.
- Work with various healthcare team members providing direct patient care.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Professionalism and Legal Issues</td>
<td>Textbooks/Certifications: $150 approx., Additional Industry Certifications- Cost Varies</td>
</tr>
<tr>
<td>• Communication</td>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>• Infection Control</td>
<td>Uniforms: $100 approx.</td>
</tr>
<tr>
<td>• Emergency Care and Disaster Preparedness</td>
<td>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>• Human Needs and Human Development</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Moving, Lifting, and Positioning</td>
<td>Clearances:</td>
</tr>
<tr>
<td>• Health Care Provider Skills</td>
<td>• Criminal Background Check- $10</td>
</tr>
<tr>
<td>• Nutrition and Hydration</td>
<td>• Physical Examination, Hepatitis Series (3 step) recommended, Tuberculin Test PPD 2 step(required by PA Law and Dept. of Health)- Cost Varies</td>
</tr>
<tr>
<td>• Basic Structures and Functions of the Human Body &amp; Related Diseases with Associated Terminology</td>
<td>• Influenza vaccine (required in October for job shadowing), Proof of PA Residency, CPR &amp; First Aid card- $10 approx. during school year.</td>
</tr>
<tr>
<td>• Death and Dying</td>
<td></td>
</tr>
<tr>
<td>• Medical Terminology</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Certified Nursing Assistant</td>
<td>• PA Dept. of Health Nurse Aide Registry</td>
</tr>
<tr>
<td>• Home Health Care Aide</td>
<td>• BLS Healthcare Provider</td>
</tr>
<tr>
<td>• Patient Care Assistant – Acute Care</td>
<td>• Hearsaver First Aid</td>
</tr>
<tr>
<td>• Personal Care Aide</td>
<td>• Heartsaver CPR</td>
</tr>
<tr>
<td></td>
<td>• Heartsaver AED</td>
</tr>
<tr>
<td></td>
<td>• DPW-Personal Care Assistant</td>
</tr>
</tbody>
</table>

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Revised 09/2016
### Skill Alignment Chart for:
Nursing Assistant/Home Health Aide – CIP Code 51.0899
Willow Street Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Emotional and mental stability  
• Empathy to understand the pains and suffering of others  
• Good personal hygiene  
• Lift heavy objects/people  
• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations  
• Prolonged standing, bending, & stooping |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• General learning  
• Manual & finger dexterity  
• Verbal & numerical |
| Reading & Language Arts Levels | • 11th grade  
• Excellent oral and written communication skills (excellent spelling skills) |
| Math Levels | • Basic math  
• Conversions  
• Height/weight  
• Manipulation of fractions, decimals & ratios and percent’s  
• Roman numerals |
| Lecture Time | • 2-2.5 hours daily |
| Homework | • 1-2 hours daily |
| Tasks Per Week | • 100 tasks prior to clinical |
| Tests | • 3-4 tests a week |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Attendance (students can only miss 8 days to qualify for clinical)  
• Attention to detail extremely important  
• Basic computer & keyboarding skills  
• Complete over 100 nursing assistant skills  
• Demonstrate initiative, responsibility, and critical thinking skills  
• Drivers education and transportation for clinical  
• Excellent note taking and listening skills |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for: Painting/Ceramic Tile & Vinyl – CIP Code 46.0408 (BT)
The following information is extremely important for you to know about this program.

- Apply professional painting skills to provide property upgrades.
- Install ceramic tile and vinyl flooring utilizing professional hand and power tools.
- Operate various types of “state of the art” spray equipment.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Exterior Painting</td>
<td>Textbooks: Provided by instructor</td>
</tr>
<tr>
<td>• Interior Painting</td>
<td>Certifications: ABC Registration- $25, OSHA-$25</td>
</tr>
<tr>
<td>• Wood Finishing</td>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>• Spray Painting</td>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>• Color/Color Harmony</td>
<td>• Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>• Wallcoverings</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Special Finishes</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>• Estimating/Mathematics</td>
<td></td>
</tr>
<tr>
<td>• Ceramic Tile Installation</td>
<td></td>
</tr>
<tr>
<td>• Vinyl Installation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Cabinet &amp; Wood Product Finisher</td>
<td>• National Center for Construction Ed &amp; Research</td>
</tr>
<tr>
<td>• Ceramic Tile or Vinyl Installer</td>
<td>• OSHA</td>
</tr>
<tr>
<td>• Drywall Installer &amp; Finisher</td>
<td></td>
</tr>
<tr>
<td>• Estimator/Measuring, Quoting Prices</td>
<td></td>
</tr>
<tr>
<td>• Interior Decorating Consultant/Salesperson</td>
<td></td>
</tr>
<tr>
<td>• Painter or Paperhanger</td>
<td></td>
</tr>
<tr>
<td>• Sales Representative – flooring, paint</td>
<td></td>
</tr>
<tr>
<td>• Undercoaters</td>
<td></td>
</tr>
</tbody>
</table>
### Skill Alignment Chart for:
Painting/Ceramic Tile & Vinyl – CIP Code 46.0408

**Brownstown Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Ability to kneel for extended periods of time (flooring)  
• Ability to lift 50 lbs overhead  
• Ability to work independently  
• Good eye/hand coordination  
• No fear of heights or working on closed spaces  
• Physical strength and stamina |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
• Color Discrimination  
• Eye/Hand/Foot Coordination  
• Finger Dexterity  
• Manual Dexterity |
| **Reading & Language Arts Levels** | • 10-11th grade level texts  
• Good writing skills |
| **Math Levels** | • Ability to read a ruler  
• Adding, subtracting, multiplying & dividing fractions, decimals |
| **Lecture Time** | • 30 minutes per day |
| **Homework** | • N/A |
| **Tasks Per Week** | • 30-40 tasks per marking period |
| **Tests** | • 3-5 Tests per week |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Attention to detail  
• Good color discrimination  
• Must have good eye/hand coordination  
• Strong attention to detail |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**  
Photography & Digital Imaging – CIP Code 50.0406(BT)  
The following information is extremely important for you to know about this program.

- Shoot photos like a professional photographer.
- Creatively enhance photos with Adobe Photoshop.
- Work side by side with established industry professionals.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera Operation</td>
<td>Textbooks: $68 approx.</td>
</tr>
<tr>
<td>Composition</td>
<td>Certifications: CPR- $12</td>
</tr>
<tr>
<td>Exposure and Meters</td>
<td>Tools/Materials: $500-$750 approx.</td>
</tr>
<tr>
<td>Filters</td>
<td>Uniforms: $50 approx.</td>
</tr>
<tr>
<td>Lighting</td>
<td>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Electronic Imagining</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Digital Photography</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Employment in Photography</td>
<td></td>
</tr>
<tr>
<td>Work Ethic</td>
<td></td>
</tr>
<tr>
<td>Interpersonal Skills and Group Dynamics</td>
<td></td>
</tr>
<tr>
<td>Thinking and Problem Solving Skills</td>
<td></td>
</tr>
<tr>
<td>Literacy Skills</td>
<td></td>
</tr>
<tr>
<td>Basic Photographer Knowledge</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Photographer</td>
<td>• May be added as availability is determined.</td>
</tr>
<tr>
<td>Graphic Designer</td>
<td></td>
</tr>
<tr>
<td>Industrial Photographer</td>
<td></td>
</tr>
<tr>
<td>Photographic Finisher</td>
<td></td>
</tr>
<tr>
<td>Photojournalist</td>
<td></td>
</tr>
<tr>
<td>Photoshop Specialist</td>
<td></td>
</tr>
<tr>
<td>Portrait Photographer</td>
<td></td>
</tr>
<tr>
<td>Wedding Photographer</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
# Skill Alignment Chart for:
Photography & Digital Imaging – CIP Code 50.0406

Brownstown Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to work independently  
• Color Vision  
• Depth perception  
• Stamina (ability to focus for long periods of time)  
• Visual acuity |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Clerical  
• Color discrimination  
• Form  
• Spatial |
| Reading & Language Arts Levels | • Textbook written on a 13th grade level |
| Math Levels | • Good measurement skills  
• Pre-Algebra |
| Lecture Time | • 1-2 hours per day |
| Homework | • Weekly Assignments |
| Tasks Per Week | • Approximately 30 tasks per marking period |
| Tests | • 1-2 tests per week  
• Mid-term |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to work with small groups  
• Ability to work with the public (excellent communication skills)  
• Basic photography skills  
• Competent computer skills (MAC)  
• Creativity  
• Excellent social skills for working with customers  
• Good handwriting skills  
• Logical/Critical thinking capabilities  
• Punctuality |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Plumbing – CIP Code 46.0503 (BT)
The following information is extremely important for you to know about this program.

- Interact with plumbing industry experts.
- Perform plumbing systems installation in homes and businesses.
- Interpret and construct plumbing systems in homes and businesses.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Demonstrate Job Site Safety Practices</td>
<td>Textbooks: $180 approx.</td>
</tr>
<tr>
<td>• Read Blueprints and Sketching of Pipe Systems</td>
<td>Certification: ABC Registration- $25, OSHA-$25</td>
</tr>
<tr>
<td>• Demonstrate Knowledge of Pipe Specifications and Systems</td>
<td>Tools/Materials: $500-$750 approx.</td>
</tr>
<tr>
<td>• Demonstrate Use of Hand and Power Tools</td>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>• Identify and Install Valves</td>
<td>• Students need to purchase more than</td>
</tr>
<tr>
<td>• Demonstrate Skill in Working with Copper Pipe</td>
<td>1Shirt/Pants to comply with uniform cleanliness</td>
</tr>
<tr>
<td>• Demonstrate Skill in Various Types of Plastic</td>
<td>standards.</td>
</tr>
<tr>
<td>Pipe and Tubing</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Install Pipe Hangers and Supports</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>• Install Water Distribution Lines</td>
<td></td>
</tr>
<tr>
<td>• Demonstrate Skill in Working with Steel Pipe</td>
<td></td>
</tr>
<tr>
<td>• Demonstrate Skill in Working with Cast Iron Pipe</td>
<td></td>
</tr>
<tr>
<td>• Demonstrate Knowledge of a Builder Leveler</td>
<td></td>
</tr>
<tr>
<td>• Build Drains and Sewers</td>
<td></td>
</tr>
<tr>
<td>• Install Fixtures</td>
<td></td>
</tr>
<tr>
<td>• Install Appliances</td>
<td></td>
</tr>
<tr>
<td>• Install Vents</td>
<td></td>
</tr>
<tr>
<td>• Maintain Plumbing Systems</td>
<td></td>
</tr>
<tr>
<td>• Perform Tests on Piping Systems</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Commercial Plumbing Installer</td>
<td>• National Center for Construction Ed &amp; Research</td>
</tr>
<tr>
<td>• Maintenance &amp; Service Plumber</td>
<td>• National Trac Pipe Certification</td>
</tr>
<tr>
<td>• Pipe Fitter</td>
<td>• Titeflex Interior Gas Piping System</td>
</tr>
<tr>
<td>• Plumbing Apprentice</td>
<td>• National Certification- Gastite Certified Installer</td>
</tr>
<tr>
<td>• Plumbing Materials Sales</td>
<td>• Hilti Operator</td>
</tr>
<tr>
<td>• Residential Plumbing Installer</td>
<td></td>
</tr>
<tr>
<td>• Sprinkling System Installer</td>
<td></td>
</tr>
</tbody>
</table>
**Skill Alignment Chart for:**  
**Plumbing – CIP Code 46.0503**  
**Brownstown Campus**

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Ability to lift 50 lbs. overhead  
• Ability to work in all weather conditions  
• Ability to work independently  
• Good eye/hand coordination  
• No fear of heights or working in closed spaces  
• Physical strength and stamina |
| **Vocational Testing (SAM)** Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Eye/hand/foot coordination  
• Finger dexterity  
• Motor Coordination  
• Spatial |
| **Reading & Language Arts Levels** | • 10-12th grade level  
• Follow oral and written instructions  
• Strong reading comprehension |
| **Math Levels** | • Whole numbers, working with measurements, fractions, decimals, constructive geometry & algebra |
| **Lecture Time** | • 30 minutes to 1 hour per day |
| **Homework** | • In-school assignments |
| **Tasks Per Week** | • 40 tasks average per marking period |
| **Tests** | • Average 10 tests per marking period |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to visualize in 3 dimensions  
• Basic computer skills for online curriculum  
• Strong attention to detail  
• Willing to work in all weather conditions  
• Willingness to work outside of classroom especially studying technical |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**

**Precision Machining & Computer-Aided Manufacturing - CIP Code 48.0599 (MJ)**

The following information is extremely important for you to know about this program.

- Earn National Skills Certificates, i.e. National Occupational Competency Testing Institute (NOCTI) PA Skills Certificates and AWS SENSE Level 1 Certificate.
- Successfully transition into a 1st career job and/or related post-secondary training.
- Be proficient in their career major and demonstrate proficiency through hands-on performance and theoretical testing.

### Curriculum Outline

- Performing Layout Work
- Part Inspection
- Bench Work
- Drill Presses
- Grinding Machines
- Lathes
- Milling Machines
- Power Saw
- Machines and Tools
- Metallurgy
- Charts and References
- Blueprint Reading
- CNC Programming

### Program Costs

- **Textbooks:** $120 approx.
- **Certifications:** NIMS-National Institute for Metal Working Skills - **TBD.**
- **Tools/Materials:** Additional information in new student letter.
- **Uniforms:** $80 approx.
  - Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.
- **CTSO Fee:** $20.00
- **Clearances:** None

### Career Pathways

- Computer Controlled Machine Tool Operator
- CNC Machine Tool Programmer
- Machinist
- Mechanical Engineer
- Industrial Engineer

### Program Opportunities

- NIMS (National Institute for Metalworking Skills)
Skill Alignment Chart for:
Precision Machining & Computer-Aided Manufacturing - CIP Code 48.0599
Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td>• A focus on safety around machining equipment, hand tools, power tools and other equipment found in the industry</td>
</tr>
<tr>
<td></td>
<td>• Able to lift 50lbs</td>
</tr>
<tr>
<td></td>
<td>• Ability to work independently, read and follow directions</td>
</tr>
<tr>
<td></td>
<td>• Good eye/hand coordination</td>
</tr>
<tr>
<td></td>
<td>• Stamina to stand for long periods of time</td>
</tr>
<tr>
<td>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</td>
<td>• Scores of average or above on:</td>
</tr>
<tr>
<td></td>
<td>• Finger and manual dexterity</td>
</tr>
<tr>
<td></td>
<td>• Form perception Motor coordination Spatial</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• 10th Grade Level</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• Ability to read and use a ruler</td>
</tr>
<tr>
<td></td>
<td>• Decimals Fractions Metric Percent’s</td>
</tr>
<tr>
<td></td>
<td>• Weights/measurements</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• Approximately 2-5 hours per week</td>
</tr>
<tr>
<td>Homework</td>
<td>• None/student’s option</td>
</tr>
<tr>
<td>Tasks Per Week</td>
<td>• Approximately 180 total for year</td>
</tr>
<tr>
<td></td>
<td>• Work at own pace - daily</td>
</tr>
<tr>
<td>Tests</td>
<td>• Math</td>
</tr>
<tr>
<td></td>
<td>• Blueprints</td>
</tr>
<tr>
<td>POS Academics</td>
<td>• College level Public Speaking is a component of the LCCTC program</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Ability to work with a team and independently to complete projects</td>
</tr>
<tr>
<td></td>
<td>• Able to convert 2 dimensional drawings into 3 dimensional projects</td>
</tr>
<tr>
<td></td>
<td>• Basic computer skills</td>
</tr>
<tr>
<td></td>
<td>• Mechanical drawing</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions, please do not hesitate to contact your counselor.
Program Information for:
Protective Services Academy – CIP Code 43.9999 (PSTC,MJ)
The following information is extremely important for you to know about this program.

- Experience the thrill and pride of saving lives and protecting the community.
- Use the latest technology and equipment available by operating fire engines, ambulances, Segways, and more!
- Engage in lifesaving emergency medical treatment, firefighting/rescue techniques, and law enforcement operations.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law- Criminal Justice System</td>
<td>Textbooks: $35 approx.</td>
</tr>
<tr>
<td>Law- Corrections</td>
<td>Uniforms: $250 approx.</td>
</tr>
<tr>
<td>Law- Homeland Security</td>
<td>- Students need to purchase more than 1Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Communications</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Incident Command Systems</td>
<td>Clearances:</td>
</tr>
<tr>
<td>Bucks Basic Fire Academy</td>
<td>- Criminal History Background Check- $10</td>
</tr>
<tr>
<td>Firefighting- Ropes and Rigging</td>
<td></td>
</tr>
<tr>
<td>Emergency Medical Care</td>
<td></td>
</tr>
<tr>
<td>Hazardous Materials</td>
<td></td>
</tr>
<tr>
<td>Special Days and Activities</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Inspector</td>
<td><strong>American Heart Association</strong>: BLS for the Healthcare Provider, Heartsaver First Aid Bucks</td>
</tr>
<tr>
<td>Fire Investigator</td>
<td><strong>CCC</strong>: Basic Fire Academy Essentials of Firefighting</td>
</tr>
<tr>
<td>Fire Protection Engineer</td>
<td><strong>FEMA</strong>: NIMS/ICS 15, 20.11, 100, 200, 230, 235, 241, 242, 292, 393, 700, 775, 800, 804, 805, 808, 813, 907</td>
</tr>
<tr>
<td>Forest Firefighter</td>
<td><strong>NAED</strong>: Emergency Telecommunicator</td>
</tr>
<tr>
<td>Municipal Firefighter</td>
<td><strong>National Board of Fire Service Professional Qualifications</strong>: Fire Inspector I, Firefighter1</td>
</tr>
<tr>
<td>Volunteer Firefighter</td>
<td><strong>National Highway Institute</strong>: Managing Traffic Incidents on the Roadway</td>
</tr>
<tr>
<td>Emergency Services Telecommunicator</td>
<td><strong>PA Department of Health</strong>: BLS Healthcare EMT-B, CPAP Monitoring</td>
</tr>
<tr>
<td>Cardiovascular Technician</td>
<td><strong>PA Department of Health Continuing Education</strong>: Crisis Response, PCR Documentation, START Triage</td>
</tr>
<tr>
<td>Emergency Medical Technician</td>
<td><strong>PA State Fire Academy</strong>: Basic Rigging for Rope Rescue, Basic Ropes &amp; Rigging High/Low Angle Rescue 1, Basic Vehicle Rescue Awareness/Operations/Technician, Bloodborne Pathogens and Infectious Disease, Engine Company Operations, Hazardous Materials – Awareness/Operations, High Angle Ropes Rescue 1, Pump Operations 1, Structural Burn Session, Truck Operations 1</td>
</tr>
<tr>
<td>Emergency Room Technician</td>
<td><strong>Other certification courses</strong>: Helicopter Landing Zone Operations, HIPAA</td>
</tr>
<tr>
<td>Emergency Communications Dispatcher</td>
<td></td>
</tr>
<tr>
<td>Corrections Officer</td>
<td></td>
</tr>
<tr>
<td>Industrial/Private Security Specialist</td>
<td></td>
</tr>
<tr>
<td>Local/State/Federal Police Officer</td>
<td></td>
</tr>
<tr>
<td>Probation and Parole</td>
<td></td>
</tr>
<tr>
<td>Retail Security Specialist</td>
<td></td>
</tr>
<tr>
<td>EMT-B</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
### Skill Alignment Chart for:
Protective Services Academy – CIP Code 43.9999

Public Safety Training Center, Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to work independently  
• Able to lift 50 pounds  
• Able to work under pressure/in adverse conditions/within time constraints |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Clerical perception  
• General learning  
• Manual & Finger Dexterity  
• Motor/hand/foot/eye coordination  
• Verbal Communication |
| Reading & Language Arts Levels | • 12th grade-college  
• Excellent written (esp. note-taking) & verbal communication skills |
| Math Levels | • Algebra and Geometry  
• Strong measurement & estimation skills |
| Lecture Time | • ¾ day daily lecture – 60% of school year |
| Homework | • Average 6-8 hours per week |
| Tasks Per Week | • Average 20 per marking period |
| Tests | • Test intensive |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Attention to detail  
• Basic computer & keyboarding skills  
• Clean criminal background check  
• Demonstrate initiative, responsibility, time management & critical thinking skills  
• Good attendance  
• Good physical health and neat appearance |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for: Residential Carpentry – CIP Code 46.0201 (MJ)
The following information is extremely important for you to know about this program.

- Experience the construction of a new home using green technology.
- Develop the skills and knowledge needed to interpret and construct current building systems.
- Operate a wide range of hand, power and air tools.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Tools</td>
<td>Textbooks: $126 approx.</td>
</tr>
<tr>
<td>Power Tools</td>
<td>Certifications: ABC Registration- $25, OSHA- $25,</td>
</tr>
<tr>
<td>Blueprints Reading</td>
<td>Additional Industry Certifications- Cost Varies</td>
</tr>
<tr>
<td>Site Preparation and Layout</td>
<td>Tools/Materials: $62 approx</td>
</tr>
<tr>
<td>Footings and Foundations</td>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>Framing- Floor Construction</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Framing- Wall Construction</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Framing- Roof Construction</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Exterior Finish</td>
<td></td>
</tr>
<tr>
<td>Interior Finish</td>
<td></td>
</tr>
<tr>
<td>Estimation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Placement &amp; Finisher</td>
<td>National Center for Construction Ed &amp; Research</td>
</tr>
<tr>
<td>Drywall Installer &amp; Finisher</td>
<td>OSHA</td>
</tr>
<tr>
<td>Finish Carpenter</td>
<td>Hilti Power Certification</td>
</tr>
<tr>
<td>Insulation Installer</td>
<td>High Lift Operations Certification</td>
</tr>
<tr>
<td>Roofer</td>
<td>Skid Loader Certification</td>
</tr>
<tr>
<td>Rough Carpenter</td>
<td></td>
</tr>
<tr>
<td>Siding Installer</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
**Skill Alignment Chart for:**
Residential Carpentry – CIP Code 46.0201
Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to lift 50 lbs. overhead  
• Ability to work in all weather conditions  
• Ability to work independently  
• Good eye/hand coordination  
• No fear of heights or working in closed spaces  
• Physical strength and stamina |
| Vocational Testing (SAM)  
Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Eye/hand/foot coordination  
• Manual & Finger Dexterity  
• Manual Coordination  
• Motor Coordination  
• Spatial |
| Reading & Language Arts Levels | • Follow oral and written directions  
• Technical writing skills  
• Text written on a 12th grade level |
| Math Levels | • Basic Algebra, fractions, decimals  
• Basic Trigonometry/Geometry  
• Measurement |
| Lecture Time | • 15-20 minutes per day |
| Homework | • Minimal |
| Tasks Per Week | • Approximately 40 tasks per marking period |
| Tests | • Weekly quizzes |
| POS Academics | • College level Public Speaking is a component of the LCCTC program |
| Study & Other Skills | • Ability to visualize  
• Driver’s license strongly recommended |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
RV & Outdoor Power Equipment – CIP Code 47.0699(WS)
The following information is extremely important for you to know about this program.

- Diagnose, maintain and repair a wide range of lawn and garden tractors and equipment from motorcycles to ATVs.
- Use same advanced diagnostic and repair equipment as a master technician uses to troubleshoot complex systems.
- Work on any outdoor power equipment and recreational vehicle in a rapidly changing industry using a full systems approach.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Demonstrate Knowledge of the Principles and Design of 2-Cycle and 4-Cycle Engines</td>
<td>Textbooks: $184 approx.</td>
</tr>
<tr>
<td>• Demonstrate Knowledge of Lubrication Systems</td>
<td>Certifications: Industry Certification Exams- $94</td>
</tr>
<tr>
<td>• Demonstrate Knowledge of Basic Electricity</td>
<td>Tools/Materials: $15 approx.</td>
</tr>
<tr>
<td>• Demonstrate Knowledge and Service of Cooling Systems</td>
<td>Uniforms: $60 approx.</td>
</tr>
<tr>
<td>• Demonstrate Knowledge of Fuel Systems</td>
<td>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>• Service Fuel Systems on All Engines</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>• Demonstrate the Knowledge and the Service Procedures of Exhaust Systems</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>• Demonstrate Skill with Measuring Systems and Tools</td>
<td></td>
</tr>
<tr>
<td>• Identify and Use Hand Tools</td>
<td></td>
</tr>
<tr>
<td>• Identify and Use Fasteners</td>
<td></td>
</tr>
<tr>
<td>• Demonstrate Welding and Cutting</td>
<td></td>
</tr>
<tr>
<td>• Diagnose Performance Problems on a 2-Cycle Gasoline Engine</td>
<td></td>
</tr>
<tr>
<td>• Diagnose Problems on a 4-Cycle Gasoline Engine</td>
<td></td>
</tr>
<tr>
<td>• Overhaul a 4-Cycle Gasoline Engine</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Equipment Rental &amp; Sales</td>
<td>• OPE/EETC: Two Stroke Engine</td>
</tr>
<tr>
<td>• Lawn &amp; Garden Equipment Technician</td>
<td>• OPE/EETC: Four Stroke Engine</td>
</tr>
<tr>
<td>• Lawn &amp; Garden Parts Salesperson</td>
<td></td>
</tr>
<tr>
<td>• Lawn &amp; Garden Service Writer</td>
<td></td>
</tr>
<tr>
<td>• Motorcycle &amp; Recreational Vehicle Parts Salesperson</td>
<td></td>
</tr>
<tr>
<td>• Motorcycle &amp; Recreational Vehicle Service Writer</td>
<td></td>
</tr>
<tr>
<td>• Motorcycle &amp; Recreational Vehicle Technician</td>
<td></td>
</tr>
<tr>
<td>• Small Engine Technician</td>
<td></td>
</tr>
</tbody>
</table>
### Skill Alignment Chart for:
RV & Outdoor Power Equipment – CIP Code 47.0699
Willow Street Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • A focus on safety around moving equipment, hand tools, power tools and other equipment found in the industry  
• Ability to diagnose the source of a problem quickly and accurately  
• Ability to sit for long periods of time  
• Ability to work independently, read and follow directions  
• Good eye/hand coordination  
• Stamina to stand or stand for long periods of time |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
• Eye/hand/foot coordination  
• Finger and manual dexterity  
• Form perception  
• Spatial |
| **Reading & Language Arts Levels** | • 12th grade |
| **Math Levels** | • Able to manipulate fractions, decimals & percent’s  
• Basic math |
| **Lecture Time** | • 45 minutes - up to 2.5 hrs daily |
| **Homework** | • 1 chapter per week |
| **Tasks Per Week** | • 40-50 tasks per marking period |
| **Tests** | • 1 quiz per week  
• 1 test per month |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work with a team to complete projects  
• Able to work independently  
• Attention to detail extremely important  
• Good attendance  
• Good communication skills  
• Drivers education |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Sheet Metal Technology – CIP Code 48.0506(MJ)
The following information is extremely important for you to know about this program.

- Create and fabricate custom metal work.
- Build and troubleshoot advanced sheet metasystems.
- Operate state of the art metal-shaping equipment.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand Tools</td>
<td>Textbooks: $130 approx.</td>
</tr>
<tr>
<td>Hand Held Power Tools</td>
<td>Certifications: ABC Registration- $25, OSHA- $25, Forklift- $5.50</td>
</tr>
<tr>
<td>Machines and Equipment</td>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>Sheet Metal Mathematics</td>
<td>Uniforms: $70 approx.</td>
</tr>
<tr>
<td>Blueprints</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Sheet Metal Pattern Drafting</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>ABC Sheet Metal Certification Tasks</td>
<td>Clearances: None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD Layout/Detaller/Draftsman</td>
<td>National Center for Construction Ed &amp; Research</td>
</tr>
<tr>
<td>Custom Metal Worker</td>
<td>OSHA</td>
</tr>
<tr>
<td>Heavy Shear/Brake Operator</td>
<td>Hilti Power Actuated Tool Training</td>
</tr>
<tr>
<td>HVAC Residential &amp; Commercial Installer</td>
<td>National Safety Council Forklift Training</td>
</tr>
<tr>
<td>Layout Worker</td>
<td></td>
</tr>
<tr>
<td>Metal Fabricator &amp; Roofer</td>
<td></td>
</tr>
<tr>
<td>Millwright</td>
<td></td>
</tr>
<tr>
<td>Sheet Metal Installer</td>
<td></td>
</tr>
<tr>
<td>Mechanic &amp; Assembler</td>
<td></td>
</tr>
<tr>
<td>Sheet Metal Production Worker</td>
<td></td>
</tr>
<tr>
<td>Siding/Spouting Installer</td>
<td></td>
</tr>
<tr>
<td>Structural Steel Worker</td>
<td></td>
</tr>
<tr>
<td>Welder</td>
<td></td>
</tr>
</tbody>
</table>
## Skill Alignment Chart for:
Sheet Metal Technology – CIP Code 48.0506
Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program Safety &amp; Physical Considerations</strong></td>
<td>• A focus on safety around welding equipment, hand tools, power tools and other equipment found in the industry  &lt;br&gt; • Ability to work independently, read and follow directions  &lt;br&gt; • Able to lift 50lbs  &lt;br&gt; • Good eye/hand coordination  &lt;br&gt; • Stamina to stand for long periods of time</td>
</tr>
<tr>
<td><strong>Vocational Testing (SAM)</strong></td>
<td><strong>Essential APTITUDES for this lab - Recommended levels</strong> &lt;br&gt; Scores of average or above on:  &lt;br&gt; • Eye/hand/foot Coordination  &lt;br&gt; • Finger and Manual Dexterity  &lt;br&gt; • Form Perception  &lt;br&gt; • Motor Coordination  &lt;br&gt; • Spatial</td>
</tr>
<tr>
<td><strong>Reading &amp; Language Arts Levels</strong></td>
<td>• 11th Grade Level  &lt;br&gt; • Good oral and written communication skills</td>
</tr>
<tr>
<td><strong>Math Levels</strong></td>
<td>• Able to manipulate fractions and decimals  &lt;br&gt; • Geometry  &lt;br&gt; • Linear measurement skills  &lt;br&gt; • Some trigonometry</td>
</tr>
<tr>
<td><strong>Lecture Time</strong></td>
<td>• Varies</td>
</tr>
<tr>
<td><strong>Homework</strong></td>
<td>• Minimal outside work</td>
</tr>
<tr>
<td><strong>Tasks Per Week</strong></td>
<td>• 35 per marking period</td>
</tr>
<tr>
<td><strong>Tests</strong></td>
<td>• Bi-weekly tests</td>
</tr>
<tr>
<td><strong>POS Academics</strong></td>
<td>• College level Public Speaking is a component of the LCCTC program</td>
</tr>
<tr>
<td><strong>Study &amp; Other Skills</strong></td>
<td>• Ability to work with a team and independently to complete projects  &lt;br&gt; • Able to convert 2 dimensional drawings into 3 dimensional projects and vice versa  &lt;br&gt; • Good eye/hand coordination  &lt;br&gt; • Mechanical ability and enjoys working with hands  &lt;br&gt; • Mechanical drawing</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**
**Sports Medicine/Rehabilitation Technician – CIP Code 51.0899 (WS)**
The following information is extremely important for you to know about this program.

- Motivate students to continue their education in fields such as athletic training, physical therapy, occupational therapy, sports medicine and other related fields.
- Performs a wide variety of duties with other professionals to aid in the successful treatment of patients.
- Strive to be a driving force on a professional healthcare team to deliver high-quality patient care.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legal and Ethical Issues in Health Care</td>
<td>Textbooks: $350 approx.</td>
</tr>
<tr>
<td>Communication in Health Care</td>
<td>Certifications: CPR (Healthcare Provider)- $40+, Cost Varies</td>
</tr>
<tr>
<td>Infection Control</td>
<td>Tools/Materials: $30 approx.</td>
</tr>
<tr>
<td>Disaster Preparedness</td>
<td>Uniforms: $65 approx.</td>
</tr>
<tr>
<td>Emergency Care and First Aid</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Human Needs and Human Development</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Moving, Lifting and Positioning</td>
<td>Clearances:</td>
</tr>
<tr>
<td>Healthcare Provider Skills</td>
<td>- Physical with lab testing (blood work) also Hepatitis series (3 step), Tuberculin test-PPD (2 step) required by PA Law and Dept. of Health-varies</td>
</tr>
<tr>
<td>Nutrition and Hydration</td>
<td>- Criminal background check- $10</td>
</tr>
<tr>
<td>Basic Structures and Functions of the Human Body &amp; Related Diseases with Associated Terminology</td>
<td>- Drug screening completed 30 days prior to going out on clinical- $45</td>
</tr>
<tr>
<td>Death &amp; Dying</td>
<td>- FBI Fingerprinting- $27.50</td>
</tr>
<tr>
<td>Medical Terminology</td>
<td></td>
</tr>
<tr>
<td>Sports Medicine and Rehabilitation</td>
<td></td>
</tr>
<tr>
<td>Certifications</td>
<td></td>
</tr>
</tbody>
</table>

### Career Pathways

- Physical Therapy Aide
- Occupational Aide

### Program Opportunities

- American Heart Association- Heartsaver AED
- National Safety Council- Bloodborne & Airborne Pathogens
- American Heart Association- CPR
### Skill Alignment Chart for:
Sports Medicine/Rehabilitation Technician – CIP Code 51.0899
Willow Street Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical</td>
<td>• Emotional and mental stability</td>
</tr>
<tr>
<td>Considerations</td>
<td>• Empathy to understand the pains and suffering of others</td>
</tr>
<tr>
<td></td>
<td>• Good personal hygiene</td>
</tr>
<tr>
<td></td>
<td>• Lift heavy objects/people</td>
</tr>
<tr>
<td></td>
<td>• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations</td>
</tr>
<tr>
<td></td>
<td>• Prolonged standing, bending, &amp; stooping</td>
</tr>
<tr>
<td>Vocational Testing (SAM)</td>
<td>Scores of average or above on:</td>
</tr>
<tr>
<td>Essential APTITUDES for this</td>
<td>• General learning</td>
</tr>
<tr>
<td>lab - Recommended levels</td>
<td>• Manual &amp; finger dexterity</td>
</tr>
<tr>
<td></td>
<td>• Verbal &amp; numerical</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• 12th grade to College level English</td>
</tr>
<tr>
<td></td>
<td>• Excellent oral and written communication skills (excellent spelling skills)</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• Conversions</td>
</tr>
<tr>
<td></td>
<td>• Fractions, decimals, percent’s &amp; ratios</td>
</tr>
<tr>
<td></td>
<td>• Height/weight</td>
</tr>
<tr>
<td></td>
<td>• Intermediate Algebra (College level)</td>
</tr>
<tr>
<td></td>
<td>• Metric system</td>
</tr>
<tr>
<td></td>
<td>• Roman numerals</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• 4 hours daily</td>
</tr>
<tr>
<td>Homework</td>
<td>• 2-3 hours daily</td>
</tr>
<tr>
<td>Tasks Per Week</td>
<td>• Approximately 20 tasks per marking period</td>
</tr>
<tr>
<td>Tests</td>
<td>• 5-8 tests a week including performance tests and academics</td>
</tr>
<tr>
<td>POS Academics</td>
<td>• College level Public Speaking is a component of the LCCTC program</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Attention to detail extremely important</td>
</tr>
<tr>
<td></td>
<td>• Basic computer and keyboarding skills</td>
</tr>
<tr>
<td></td>
<td>• Demonstrate initiative, responsibility, and critical thinking skills</td>
</tr>
<tr>
<td></td>
<td>• Excellent note taking and listening skills</td>
</tr>
<tr>
<td></td>
<td>• Transportation for clinical</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to **contact your counselor**.
Program Information for:
Veterinary Assistant – CIP Code 51.0808 (WS)
The following information is extremely important for you to know about this program.

- Experience the reward of caring for animals in a clinical setting.
- Practice customer service and professional ethics when interacting with patients, clients and coworkers.
- Actively participate in live surgical clinics weekly as part of a professional veterinary team.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Dilutions, Behavior, Restraint, Grooming, Sanitation and Dog Breed Project</td>
<td></td>
</tr>
<tr>
<td>• Integumentary System, Medical Terminology, Medical Records and Nursing Care</td>
<td></td>
</tr>
<tr>
<td>• Musculoskeletal System and Radiology</td>
<td></td>
</tr>
<tr>
<td>• Circulatory and Respiratory Systems</td>
<td></td>
</tr>
<tr>
<td>• Anesthesia and Surgery</td>
<td></td>
</tr>
<tr>
<td>• Immune System, Disease, Canine &amp; Feline Vaccines, and Physical Exam</td>
<td></td>
</tr>
<tr>
<td>• Laws, Ethnicities, and Pharmacology</td>
<td></td>
</tr>
<tr>
<td>• Endocrine System, Renal System, and Urinalysis</td>
<td></td>
</tr>
<tr>
<td>• Digestive, Nutrition, and Parasitology</td>
<td></td>
</tr>
<tr>
<td>• Nervous and Sensory System</td>
<td></td>
</tr>
<tr>
<td>• Reproduction and Breeding</td>
<td></td>
</tr>
<tr>
<td>• Pocket Pets</td>
<td></td>
</tr>
<tr>
<td>• Large Animal</td>
<td></td>
</tr>
<tr>
<td>Textbooks: $150 approx.</td>
<td></td>
</tr>
<tr>
<td>Certifications: NAVTA certification-$100</td>
<td></td>
</tr>
<tr>
<td>Tools/Materials: $60 approx.</td>
<td></td>
</tr>
<tr>
<td>Uniforms: $160 approx.</td>
<td></td>
</tr>
<tr>
<td>• Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
<td></td>
</tr>
<tr>
<td>CTSO Fee: $20.00</td>
<td></td>
</tr>
<tr>
<td>Clearances: None</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Animal Caretaker</td>
<td></td>
</tr>
<tr>
<td>• Animal Intake Officer</td>
<td></td>
</tr>
<tr>
<td>• Animal Trainer</td>
<td></td>
</tr>
<tr>
<td>• Groomer Assistant</td>
<td></td>
</tr>
<tr>
<td>• Kennel Assistant</td>
<td></td>
</tr>
<tr>
<td>• Veterinary Assistant</td>
<td></td>
</tr>
<tr>
<td>• Veterinary Receptionist</td>
<td></td>
</tr>
<tr>
<td>• Groomer</td>
<td></td>
</tr>
<tr>
<td>• Veterinary Technician (AAS)</td>
<td></td>
</tr>
<tr>
<td>• Veterinary Technologist (BS)</td>
<td></td>
</tr>
<tr>
<td>• Veterinary Nutritional Advocate</td>
<td></td>
</tr>
<tr>
<td>• National Association of Veterinary Technicians in America-Approved Veterinary Assistant Certificate</td>
<td></td>
</tr>
</tbody>
</table>

Revised 09/2016
**Skill Alignment Chart for:**

Veterinary Assistant – CIP Code 51.0808

Willow Street Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • Emotional and mental stability  
• Lift heavy objects/animals  
• Not disturbed by incidences such as bodily fluids, surgeries, injections, traumatic situations  
• Prolonged standing, bending, & stooping |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
• General learning  
• Manual & finger dexterity  
• Verbal & numerical |
| **Reading & Language Arts Levels** | • 12th grade to college level |
| **Math Levels** | • Basic math  
• Conversions (metric system)  
• Fractions, decimals, percentages, & ratios  
• Long division  
• Roman numerals  
• Weight |
| **Lecture Time** | • 3 hours daily |
| **Homework** | • 2 hours daily |
| **Tasks Per Week** | • Approximately 50 tasks per marking period |
| **Tests** | • 3-4 tests a week |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work with a team to complete projects  
• Attention to detail extremely important  
• Good attendance  
• Excellent communication and critical thinking skills  
• Excellent hygiene  
• Keyboarding skills  
• Love of animals  
• Transportation needed for clinical |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
Program Information for:
Welding Technology – CIP Code 48.0508 (MJ)
The following information is extremely important for you to know about this program.

- Perform a wide range of welding processes using advanced welding techniques.
- Assemble and fabricate specialized metal products.
- Practice welds needed for weld certification, use modern power tools/equipment, and interpret fabrication blueprints.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Welding</td>
<td>Textbooks: $70 approx.</td>
</tr>
<tr>
<td>Welding, Drawing, and Weld Symbol Interpretation</td>
<td>Certifications: AWS Membership and AWS Sense- $25 approx.</td>
</tr>
<tr>
<td>Shielded Metal Arc Welding (SMAW)</td>
<td>Uniforms: $140 approx.</td>
</tr>
<tr>
<td>Gas Metal Arc Welding (GMAW)</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Flux Cored Arc Welding (FCAW)</td>
<td>CTSO Fee: $20.00</td>
</tr>
<tr>
<td>Gas Tungsten Arc Welding (GTAW)</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Manual Oxyfuel Gas Cutting (OFC)</td>
<td></td>
</tr>
<tr>
<td>Mechanized Oxyfuel Gas Cutting (OFC)</td>
<td></td>
</tr>
<tr>
<td>Manual Plasma Arc Cutting (PAC)</td>
<td></td>
</tr>
<tr>
<td>Manual Air Carbon Arc Cutting (CAC-A)</td>
<td></td>
</tr>
<tr>
<td>Brazing and Soldering</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Industry</td>
<td>American Welding Society: SENSE Certification-Level 1 Entry Welder</td>
</tr>
<tr>
<td>Equipment Repair &amp; Sales</td>
<td></td>
</tr>
<tr>
<td>Field Welder</td>
<td></td>
</tr>
<tr>
<td>Industrial Welder/Fabricator</td>
<td></td>
</tr>
<tr>
<td>Oxyacetylene/Plasma Cutter</td>
<td></td>
</tr>
<tr>
<td>Pipe Fitter –Welder</td>
<td></td>
</tr>
<tr>
<td>TIG/MIG/Electric Arc Welder</td>
<td></td>
</tr>
<tr>
<td>Underwater Repair &amp; Fabrication</td>
<td></td>
</tr>
<tr>
<td>Weld Inspector</td>
<td></td>
</tr>
</tbody>
</table>
### Skill Alignment Chart for:
Welding Technology – CIP Code 48.0508
Mount Joy Campus

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| **Program Safety & Physical Considerations** | • A focus on safety around welding equipment, hand tools, power tools and other equipment found in the industry  
• Able to lift 50lbs  
• Ability to work independently, read and follow directions  
• Good eye/hand coordination  
• Stamina to stand for long periods of time |
| **Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels** | Scores of average or above on:  
• Finger and manual dexterity  
• Form perception  
• Motor coordination  
• Spatial |
| **Reading & Language Arts Levels** | • 10th Grade Level |
| **Math Levels** | • Ability to read and use a ruler  
• Decimals  
• Fractions  
• Metric  
• Percent’s  
• Weights/measurements |
| **Lecture Time** | • Approximately 2-5 hours per week |
| **Homework** | • None/student’s option |
| **Tasks Per Week** | • Approximately 180 total for year  
• Work at own pace - daily |
| **Tests** | • Work at own pace/graded on 35 units – plus reviews  
• Math  
• Blueprints |
| **POS Academics** | • College level Public Speaking is a component of the LCCTC program |
| **Study & Other Skills** | • Ability to work with a team and independently to complete projects  
• Able to convert 2 dimensional drawings into 3 dimensional projects  
• Basic computer skills  
• Mechanical drawing |

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**
**Construction Cluster – CIP Code 46.0201(BT/MJ/WS)**
The following information is extremely important for you to know about this program.

- Experience the basic construction trades.
- Operate professional hand and power tools.
- Perform basic carpentry, masonry, plumbing, and electrical skills and more!

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool Safety</td>
</tr>
<tr>
<td>Lumber and Wood</td>
</tr>
<tr>
<td>Introduction to Carpentry- Floor</td>
</tr>
<tr>
<td>Introduction to Carpentry- Wall</td>
</tr>
<tr>
<td>Introduction to Carpentry- Roof</td>
</tr>
<tr>
<td>Introduction to Carpentry- Exterior</td>
</tr>
<tr>
<td>Introduction to Plumbing- Tools</td>
</tr>
<tr>
<td>Introduction to Plumbing- Systems</td>
</tr>
<tr>
<td>Introduction to Plumbing- Residential</td>
</tr>
<tr>
<td>Introduction to Masonry- Tools</td>
</tr>
<tr>
<td>Introduction to Masonry- Block</td>
</tr>
<tr>
<td>Introduction to Masonry- Brick</td>
</tr>
<tr>
<td>Introduction to Masonry- Concrete</td>
</tr>
<tr>
<td>Introduction to Painting- Exterior</td>
</tr>
<tr>
<td>Introduction to Painting- Interior</td>
</tr>
<tr>
<td>Introduction to Electric- Tools</td>
</tr>
<tr>
<td>Introduction to Residential Electric- Wiring Basics</td>
</tr>
<tr>
<td>Introduction to HVAC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Textbooks: Provided by the instructor.</td>
</tr>
<tr>
<td>Certifications: OSHA- $25</td>
</tr>
<tr>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>CTSO Fee: $10.00</td>
</tr>
<tr>
<td>Clearances: None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carpenter</td>
</tr>
<tr>
<td>Electrician</td>
</tr>
<tr>
<td>Landscaper</td>
</tr>
<tr>
<td>Mason</td>
</tr>
<tr>
<td>Painter</td>
</tr>
<tr>
<td>Plumber</td>
</tr>
<tr>
<td>HVAC Technician</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCCER Construction Technology</td>
</tr>
</tbody>
</table>

**Full Day Program Articulations**

- HVAC/R
- Commercial Construction
- Residential Carpentry
- Electrical Construction Technology
- Plumbing
- Architectural CAD
- Painting/Ceramic Tile and Vinyl
- Heavy Equipment Operation
Skill Alignment Chart for:
Construction Cluster – CIP Code 46.0201
Brownstown/Mount Joy/Willow Street Campuses
Half-Day Program for Juniors

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to lift 50 lbs overhead  
• Ability to work in all weather conditions  
• Ability to work independently  
• Good eye/hand coordination  
• No fear of heights or working in closed spaces  
• Physical strength and stamina |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Color discrimination  
• Finger dexterity  
• Form perception  
• Manual dexterity  
• Spatial |
| Reading & Language Arts Levels | • 9th grade or higher |
| Math Levels | • Basic Geometry  
• Basic math skills  
• Fractions  
• Measurement skills |
| Lecture Time | • ½ hour daily |
| Homework | • None |
| Tasks Per Week | • 5-10 per marking period (depends on trade area) |
| Tests | • 4 to 5 per marking period |
| Study & Other Skills | • Able to use a ruler  
• Able to work with fractions, decimals, also able to compute ratio, rate, percent’s, area and volume  
• Excellent hand/eye coordination  
• Good attendance  
• Good physical health (able to lift 50 lbs. to a height of 40inches)  
• Good sense of balance  
• Good technical writing skills  
• No fear of heights  
• Stamina (able to stand for long periods of time) |

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Program Information for:
Culinary Cluster – CIP Code 12.0508 (BT/MJ/WS)
The following information is extremely important for you to know about this program.

- Create desserts from traditional recipes such as cookies and cheesecakes to pastries with artistic presentation.
- Experience the latest trends in food preparation such as Asian cuisine, barbecue, and vegetarian dishes as well as traditional cuisine.
- Plan, prepare, and serve meals for special events.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety &amp; Sanitation</td>
<td>Textbooks: Provided by the instructor.</td>
</tr>
<tr>
<td>Equipment</td>
<td>Certifications: OSHA- $25</td>
</tr>
<tr>
<td>Baking</td>
<td>Tools/Materials: Additional information in new student letter.</td>
</tr>
<tr>
<td>Garde Manger</td>
<td>Uniforms: $70 approx.</td>
</tr>
<tr>
<td>Soups, Stocks, and Sauces</td>
<td></td>
</tr>
<tr>
<td>Short Order Cooking</td>
<td></td>
</tr>
<tr>
<td>Cooking Methods</td>
<td></td>
</tr>
<tr>
<td>Management Techniques</td>
<td></td>
</tr>
<tr>
<td>Customer Service</td>
<td></td>
</tr>
<tr>
<td>Kitchen Calculations</td>
<td></td>
</tr>
<tr>
<td>Events</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baker</td>
<td>OSHA</td>
</tr>
<tr>
<td>Host/Hostess/Server</td>
<td>Full Day Program Articulations</td>
</tr>
<tr>
<td>Cook/Chef</td>
<td>Culinary Arts/Chef</td>
</tr>
<tr>
<td>Institutional Food Worker</td>
<td>Baking &amp; Pastry Arts</td>
</tr>
<tr>
<td>Food Service Manager</td>
<td>Event Planning &amp; Tourism Services Management</td>
</tr>
<tr>
<td>Meat Cutter/Food Processor</td>
<td></td>
</tr>
<tr>
<td>Front Desk &amp; Hotel Reservations Clerk</td>
<td></td>
</tr>
</tbody>
</table>

CTSO Fee: $10.00
Clearances: None

Revised 09/2016
Skill Alignment Chart for:
Culinary Cluster – CIP Code 12.0508
Brownstown/Mount Joy/Willow Street Campuses
Half-Day Program for Juniors

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td>• A focus on safety around kitchen equipment, knives, and other tools and equipment found in the industry&lt;br&gt;• Ability to work in a fast-paced environment&lt;br&gt;• Good personal hygiene&lt;br&gt;• Stamina needed to stand for long periods of time</td>
</tr>
<tr>
<td>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</td>
<td>Scores of average or above on:&lt;br&gt;• Eye/hand coordination&lt;br&gt;• Fine motor&lt;br&gt;• Form perception&lt;br&gt;• Spatial</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• Text is 10th grade to college level</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• Fractions&lt;br&gt;• Liquid and dry measurements&lt;br&gt;• Percent’s&lt;br&gt;• Volume</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• 20-30 minutes per day</td>
</tr>
<tr>
<td>Homework</td>
<td>• Weekly</td>
</tr>
<tr>
<td>Tasks Per Week</td>
<td>• Approximately 15-20 tasks per marking period</td>
</tr>
<tr>
<td>Tests</td>
<td>• 6 per marking period</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Ability to lift up to 30 lbs&lt;br&gt;• Able to work at a fast pace&lt;br&gt;• Ability to work independently and with a small group&lt;br&gt;• Able to work with fractions, decimals, also able to compute ratio, rate, percent’s, area and volume&lt;br&gt;• Excellent hand/eye coordination&lt;br&gt;• Excellent hygiene&lt;br&gt;• Good attendance&lt;br&gt;• No acrylic nails&lt;br&gt;• No jewelry allowed including piercings&lt;br&gt;• No nail polish&lt;br&gt;• Stamina (able to stand for long periods of time)&lt;br&gt;• Stomach to work with raw food</td>
</tr>
</tbody>
</table>

This sheet is designed to give you a better idea of course requirements. This is for your information only. If you have any questions about anything on this sheet, please do not hesitate to contact your counselor.
**Program Information for:**

**Health Care Cluster – CIP Code 51.0899(BT/MJ/WS)**

The following information is extremely important for you to know about this program.

- Perform a wide range of medical skills in various health care careers.
- Use medical equipment in exploring the human body.
- Practice ethical standard, confidentiality, leadership and professionalism when interacting with patients, clients, and co-workers.

### Curriculum Outline

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>History of Health Care</td>
</tr>
<tr>
<td>Health Care Team</td>
</tr>
<tr>
<td>Ethics</td>
</tr>
<tr>
<td>Legal Aspects</td>
</tr>
<tr>
<td>Health Care Career Search</td>
</tr>
<tr>
<td>Qualities of Health Care Worker</td>
</tr>
<tr>
<td>Communication</td>
</tr>
<tr>
<td>24-Hour Clock</td>
</tr>
<tr>
<td>Intro to Medical Terminology</td>
</tr>
<tr>
<td>Medical Terminology with A&amp;P</td>
</tr>
<tr>
<td>Emergency Care</td>
</tr>
<tr>
<td>Client Assessment</td>
</tr>
<tr>
<td>Bedside Care Skills</td>
</tr>
</tbody>
</table>

### Program Costs

- **Textbooks:** $134 approx.
- **Certifications:**
  - BLS for Health Care Providers - $7,
  - Heartsaver First Aid - $5,
  - OSHA - $25
- **Tools/Materials:** Additional information in new student letter.
- **Uniforms:** $75 approx.
  - Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.
- **CTSO Fee:** $10.00
- **Clearances:** None

### Career Pathways

- Certified Nursing Assistant/Home Health Aide
- Dental Assistant
- Medical Assistant
- Health Information Manager
- Clinical Care Assistant

### Program Opportunities

- American Heart Association - BLS Healthcare Provider
- Heartsaver First Aid
- OSHA

### Full Day Program Articulations

- Advanced Health Careers
- Nursing Assistant
- Medical Assistant
- Medical Administrative Assistant
- Clinical Care Assistant
- Dental Assistant
Skill Alignment Chart for:
Health Care Cluster – CIP Code 51.0899
Brownstown/Mount Joy/Willow Street Campuses
Half-Day Program for Juniors

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td>• Health related class recommended</td>
</tr>
<tr>
<td>Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels</td>
<td>Scores of average or above on:</td>
</tr>
<tr>
<td></td>
<td>• Clerical perception</td>
</tr>
<tr>
<td></td>
<td>• Color discrimination</td>
</tr>
<tr>
<td></td>
<td>• Finger dexterity</td>
</tr>
<tr>
<td></td>
<td>• Manual dexterity</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• 8th grade or higher</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• Decimals, fractions, percent’s - example: kilo to pounds-conversions</td>
</tr>
<tr>
<td></td>
<td>• Multiplication</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• 30-60 minutes per day</td>
</tr>
<tr>
<td>Homework</td>
<td>• 30-60 minutes per day</td>
</tr>
<tr>
<td>Tasks Per Week</td>
<td>• Up to 8 per marking period</td>
</tr>
<tr>
<td>Tests</td>
<td>• Up to 5 per week</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Attention to detail extremely important</td>
</tr>
<tr>
<td></td>
<td>• Basic computer and keyboarding skills</td>
</tr>
<tr>
<td></td>
<td>• Demonstrate initiative, teamwork, cooperation, and responsibility</td>
</tr>
<tr>
<td></td>
<td>• Good attendance</td>
</tr>
<tr>
<td></td>
<td>• Good customer service skills</td>
</tr>
<tr>
<td></td>
<td>• Good time management, memorization and test taking skills</td>
</tr>
<tr>
<td></td>
<td>• Excellent oral and written communication skills</td>
</tr>
<tr>
<td></td>
<td>• Public speaking</td>
</tr>
<tr>
<td></td>
<td>• Spelling, critical thinking, and note taking skills</td>
</tr>
<tr>
<td></td>
<td>• Stamina (able to stand for long periods of time)</td>
</tr>
<tr>
<td></td>
<td>• Willingness to study outside of class</td>
</tr>
</tbody>
</table>

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Program Information for:
Manufacturing Cluster – CIP Code 48.0508(BT/MJ/WS)
The following information is extremely important for you to know about this program.

- Fabricate and build custom metal projects.
- Operate the same welding and cutting equipment as industry professionals.
- Design, invent and develop electrical and robotic systems!

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band Saw</td>
<td>Textbooks: Provided by instructor</td>
</tr>
<tr>
<td>Drill Press</td>
<td>Certifications: OSHA- $25</td>
</tr>
<tr>
<td>CNC Milling Machine</td>
<td>Tools/Materials: $40 approx.</td>
</tr>
<tr>
<td>Estimated Total</td>
<td>Uniforms: $80 approx.</td>
</tr>
<tr>
<td>Hours of Instruction</td>
<td>• Students need to purchase more than</td>
</tr>
<tr>
<td></td>
<td>1 Shirt/Pants to comply with uniform</td>
</tr>
<tr>
<td></td>
<td>cleanliness standards.</td>
</tr>
<tr>
<td>Pedestal Grinder</td>
<td>CTSO Fee: $10.00</td>
</tr>
<tr>
<td>Industrial Electricity</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Basic Robot Programming</td>
<td></td>
</tr>
<tr>
<td>Mechatronics</td>
<td></td>
</tr>
<tr>
<td>Independent Projects</td>
<td></td>
</tr>
<tr>
<td>11 Hand Tools</td>
<td></td>
</tr>
<tr>
<td>Hand Held Power Tools</td>
<td></td>
</tr>
<tr>
<td>Hand and Operated Forming Tools</td>
<td></td>
</tr>
<tr>
<td>Power Operated Forming Tools</td>
<td></td>
</tr>
<tr>
<td>Principles of Layout</td>
<td></td>
</tr>
<tr>
<td>Shop Projects</td>
<td></td>
</tr>
<tr>
<td>Shielded Metal Arc Welding (SMAW)</td>
<td></td>
</tr>
<tr>
<td>Gas Metal Arc Welding (GMAW)</td>
<td></td>
</tr>
<tr>
<td>Gas Tungsten Arc Welding (GTAW)</td>
<td></td>
</tr>
<tr>
<td>Manual Oxyfuel Gas Curring (OFC)</td>
<td></td>
</tr>
<tr>
<td>Oxyfuel Welding</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Maintenance Technician</td>
<td>• OSHA</td>
</tr>
<tr>
<td>Sheet Metal Worker</td>
<td>Full Day Program Articulations</td>
</tr>
<tr>
<td>Welder</td>
<td>• Sheet Metal Technology</td>
</tr>
<tr>
<td></td>
<td>• Welding Technology</td>
</tr>
<tr>
<td></td>
<td>• Electro-Mechanical Engineering Technology</td>
</tr>
<tr>
<td></td>
<td>• Precision Machining &amp; Computer-Aided Manufacturing</td>
</tr>
<tr>
<td></td>
<td>• Cabinetmaking &amp; Wood Technology</td>
</tr>
</tbody>
</table>
Skill Alignment Chart for:
Manufacturing Cluster – CIP Code 48.0508
Brownstown/Mount Joy/Willow Street Campuses
Half-Day Program for Juniors

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
</table>
| Program Safety & Physical Considerations | • Ability to function in noisy and dirty environment  
• Ability to understand and follow safety procedures  
• Ability to work independently, read and follow directions  
• Able to lift 50 lbs. to a height of 40 inches  
• Blueprint reading skill recommended  |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
• Form perception  
• Manual dexterity  
• Numerical aptitude  
• Spatial  |
| Reading & Language Arts Levels | • 10th grade  |
| Math Levels | • Basic math and geometry  
• Fractions, Decimals,Percent's  
• Good measurement skills  
• Metric system  |
| Lecture Time | • 20 minutes per day or 1 hour 2 times per week  |
| Homework | • None -1 chapter per week done at CTC  |
| Tasks Per Week | • Approximately 10 tasks per marking period  
• $40 covers materials for program  |
| Tests | • 2 times weekly  |
| Study & Other Skills | • Ability to work independently and with a small group  
• Able to use a ruler  
• Able to work with fractions, decimals, also able to compute ratio, rate, percent’s, area and volume  
• Excellent hand/eye coordination  
• Good oral and written communication skills  
• Good technical writing skills  
• Logical, step by step thinking required  
• Stamina (able to stand for long periods of time)  
• Tech Ed or shop class at high school recommended  |

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Program Information for:
Transportation Cluster – CIP Code 47.0604 (BT/MJ/WS)
The following information is extremely important for you to know about this program.

- Develop the skills to diagnose and troubleshoot today's hi-tech vehicles and equipment.
- Explore and experience the operating systems and repair procedures for a wide range of vehicles.
- Interact with trade professionals from the transportation industry.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shop Equipment Usage and Practices</td>
<td>Textbooks: Provided by instructor</td>
</tr>
<tr>
<td>Fasteners and Gaskets</td>
<td>Certifications: First Aid Certification- $6.50 approx.,</td>
</tr>
<tr>
<td>Engine Repair</td>
<td>Valvoline Oil- Free, Yamaha YTA Bronze- Free (varies by campus)</td>
</tr>
<tr>
<td>Fuel Systems</td>
<td>Tools/Materials: Additional information in new student</td>
</tr>
<tr>
<td>Electrical and Electrical Systems</td>
<td>letter.</td>
</tr>
<tr>
<td>Drive Systems and Transmissions</td>
<td>Uniforms: $60 approx.</td>
</tr>
<tr>
<td>Cooling System</td>
<td>- Students need to purchase more than 1 Shirt/Pants</td>
</tr>
<tr>
<td>Tires</td>
<td>to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Brakes</td>
<td>CTSO Fee: $10.00</td>
</tr>
<tr>
<td>Suspension and Steering Systems</td>
<td>Clearances: None</td>
</tr>
<tr>
<td>Safety Inspection</td>
<td></td>
</tr>
<tr>
<td>Preventive Maintenance</td>
<td></td>
</tr>
<tr>
<td>Automobile Engines</td>
<td></td>
</tr>
<tr>
<td>Small Engines</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Career Pathways</th>
<th>Program Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Mechanic</td>
<td>First Aid Certification</td>
</tr>
<tr>
<td>Collision Repair Worker</td>
<td>Valvoline Oil</td>
</tr>
<tr>
<td>Diesel Mechanic</td>
<td>Yamaha YTA Bronze</td>
</tr>
<tr>
<td>Heavy Equipment Operator/Mechanic</td>
<td></td>
</tr>
<tr>
<td>Parts Salesperson</td>
<td>Full Day Program Articulations</td>
</tr>
<tr>
<td>RV Mechanic</td>
<td>Automotive Technology</td>
</tr>
<tr>
<td>Small Engine Mechanic</td>
<td>Automotive Mechanics</td>
</tr>
</tbody>
</table>

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Revised 09/2016
# Skill Alignment Chart for:
Transportation Cluster – CIP Code 47.0604
Brownstown/Mount Joy/Willow Street Campuses
Half-Day Program for Juniors

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td>• Enthusiasm</td>
</tr>
<tr>
<td></td>
<td>• Good attendance</td>
</tr>
<tr>
<td></td>
<td>• Good grade point average</td>
</tr>
<tr>
<td>Vocational Testing (SAM)</td>
<td>Scores of average or above on:</td>
</tr>
<tr>
<td>Essential APTITUDES for this lab - Recommended levels</td>
<td>• Finger dexterity</td>
</tr>
<tr>
<td></td>
<td>• Form perception</td>
</tr>
<tr>
<td></td>
<td>• Manual dexterity</td>
</tr>
<tr>
<td></td>
<td>• Reasoning</td>
</tr>
<tr>
<td></td>
<td>• Spatial</td>
</tr>
<tr>
<td>Reading &amp; Language Arts Levels</td>
<td>• 11th-12th grade</td>
</tr>
<tr>
<td>Math Levels</td>
<td>• Basic math</td>
</tr>
<tr>
<td></td>
<td>• Decimals</td>
</tr>
<tr>
<td></td>
<td>• Fractions</td>
</tr>
<tr>
<td></td>
<td>• Metric system</td>
</tr>
<tr>
<td></td>
<td>• Percent’s</td>
</tr>
<tr>
<td>Lecture Time</td>
<td>• 30 minutes per day</td>
</tr>
<tr>
<td>Homework</td>
<td>• Occasional</td>
</tr>
<tr>
<td>Tasks</td>
<td>• 40 tasks per marking period</td>
</tr>
<tr>
<td>Tests</td>
<td>• Weekly tests or quizzes</td>
</tr>
<tr>
<td>Study &amp; Other Skills</td>
<td>• Ability to follow oral and written communications</td>
</tr>
<tr>
<td></td>
<td>• Ability to work with a team to complete projects</td>
</tr>
<tr>
<td></td>
<td>• Able to work with fractions, decimals, weights and measures</td>
</tr>
<tr>
<td></td>
<td>• Basic computer skills</td>
</tr>
<tr>
<td></td>
<td>• Good attendance</td>
</tr>
<tr>
<td></td>
<td>• Good oral and written communication skills</td>
</tr>
</tbody>
</table>

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Program Information for:
Visual Communications Cluster – CIP Codes 10.0399 & 50.0402 (BT/WS)
The following information is extremely important for you to know about this program.

- Experience drawing, computer graphics, and photography to deliver powerful visual arts.
- Capture photographs with current digital cameras.
- Create and design reproductions utilizing the same hardware and design software as professional graphic artists and commercial printers.

<table>
<thead>
<tr>
<th>Curriculum Outline</th>
<th>Program Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Design</td>
<td>Textbooks: Provided by instructor</td>
</tr>
<tr>
<td>Photography</td>
<td>Certifications: First Aid Certification- <strong>$6.50 approx.</strong></td>
</tr>
<tr>
<td>Press Operations</td>
<td>Uniforms: $60 approx.</td>
</tr>
<tr>
<td>Digital Image Manipulation</td>
<td>- Students need to purchase more than 1 Shirt/Pants to comply with uniform cleanliness standards.</td>
</tr>
<tr>
<td>Digital Illustration</td>
<td>CTSO Fee: $10.00</td>
</tr>
<tr>
<td>Multi-Media</td>
<td>Clearances: None</td>
</tr>
</tbody>
</table>

Career Pathways
- Bindery Worker
- Commercial Designer
- Layout & Design Assistant
- Press Operator
- Photographer
- Desktop Operator Assistant

Program Opportunities
- First Aid Certification

**Full Day Program Articulations**
- Commercial Art
- Computer Systems Technology
- Digital Design/Print Media
- Photography & Digital Imaging
- Commercial Art
**Skill Alignment Chart for:**  
Visual Communications Cluster – CIP Codes 50.0402  
Brownstown/Willow Street Campuses Half-Day  
Program for Juniors

<table>
<thead>
<tr>
<th>Educational &amp; Physical Attributes</th>
<th>Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Safety &amp; Physical Considerations</td>
<td></td>
</tr>
</tbody>
</table>
  - A focus on safety around moving equipment  
  - Color Vision  
  - Depth perception  
  - Good manual dexterity  
  - Stamina including focus at work station for long periods of time including standing or sitting for long periods of time  
  - Visual acuity |
| Vocational Testing (SAM) Essential APTITUDES for this lab - Recommended levels | Scores of average or above on:  
  - Color discrimination  
  - Finger dexterity  
  - Form perception  
  - Spatial |
| Reading & Language Arts Levels |  
  - 10th – 12th grade |
| Math Levels |  
  - Basic math  
  - Decimals  
  - Fractions  
  - Measurement  
  - Multiplication |
| Lecture Time |  
  - 45-60 minutes per week |
| Homework |  
  - Occasional homework assigned |
| Tasks Per Week |  
  - 8-12 projects per marking period |
| Tests |  
  - Average 4 per marking period  
  - Tests are both written/computer |
| Study & Other Skills |  
  - Ability to sit and work for long periods of time  
  - Ability to work with a team to complete projects  
  - Attention to detail extremely important  
  - Art and graphics classes  
  - Drafting  
  - Excellent measurement, spelling and writing skills  
  - Good attendance  
  - Good eye for color and proportion  
  - Good keyboarding skills  
  - Manipulation of fractions, decimals, and ability to use percentages and proportions |

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