

## “Drawing Board” for a Tech Prep Program

| <b>Technology CLUSTER</b>       |  |   |  |                                |
|---------------------------------|--|---|--|--------------------------------|
| <i>Rock Falls High School</i>   |  |   |  |                                |
| Subject                         | 9 <sup>th</sup> Grade                        | 10 <sup>th</sup> Grade                    | 11 <sup>th</sup> Grade                       | 12 <sup>th</sup> Grade         |
| MATH                            | <b>Alg. IA<br/>Alg. I<br/>Geometry</b>       | <b>Alg. 1B<br/>Geometry<br/>Adv. Alg.</b> | Geometry<br>Adv. Alg.<br>Pre-Calc.           |                                |
| ENGLISH/<br>SPEECH              | <b>English 1</b>                             | <b>English 2<br/>Speech</b>               | <b>Junior<br/>English</b>                    | <b>Senior<br/>English</b>      |
| SCIENCE                         | <b>Bio. 1</b>                                | <b>E/G<br/>Science</b>                    | Bio. II or<br>Chem. 1                        |                                |
| SOCIAL<br>STUDIES/<br>FINE ARTS | <b>Civics</b>                                | W. Geog.                                  | <b>American<br/>History<br/>Cons. Ed</b>     | <b>Am. Govt.<br/>Economics</b> |
| (COMPUTER)<br>TECHNOLOGY        |  |   |  |                                |
| OTHER                           | <b>PE 1 /<br/>Health</b>                     | <b>PE 2/<br/>Dr. Ed.</b>                  | <b>PE 3</b>                                  | <b>PE 4</b>                    |
| OTHER                           |  |   |  |                                |
| TECHNICAL<br>CORE               | Drafting<br>Intro. to<br>Machine &<br>Metals | Metals I, II                              | Intro. to<br>Power<br>Mechanics<br>Welding I | Welding II                     |

| <b>Heating, Refrigeration, &amp; Air Conditioning<br/>(Career Major)</b> |  |  |   |
|--|--|--|---|
| <i>Sauk Valley Community College</i>                                     |  |  |   |
| Freshman   |  | Sophomore  |   |
| <b>MAT 106</b> or<br>higher-3 hrs.                                       |  |  |   |
|  | <b>ENG 101-</b><br>Composition I-<br>3 hrs.                          |  | <b>ENG 111-</b><br>Business &<br>Technical<br>Communication- 3 hrs. |
|  |  |  | <b>Physical/Life<br/>Science-4<br/>hrs.</b>                         |
|  |  | <b>Humanities/<br/>Fine Arts-</b><br>3 hrs.          |   |
|  |  | <b>Social/<br/>Behavioral<br/>Science-</b><br>3 hrs. |   |
| <b>PSY 100-</b><br>Orientation-<br>1 hr.                                 | <b>HRS 120-</b><br>Design,<br>Installation &<br>Servicing-<br>3 hrs. |  |   |
| <b>HRS 105-</b><br>Refrigeration<br>Principles-3<br>hrs.                 | <b>HRS 130-</b><br>Basic Heating -<br>3 hrs.                         | <b>ENE 150-</b><br>Energy Audit-3<br>hrs.            | <b>HRS 222-</b><br>Commercial<br>Refrigeration-3 hrs.               |
| <b>HRS 114-</b> Sheet<br>Metal<br>Fabrication-3<br>hrs.                  | <b>HRS 160-</b> Heat<br>Pumps<br>3 hrs.                              | <b>HRS 225-</b><br>Advanced<br>Controls- 3 hrs.      |   |

|  |  |  |                                     |  |
|--|--|--|-------------------------------------|--|
| TECHNICAL CORE                                 |  |  |                                     |  |
| WACC OPPORTUNITY, INTERNSHIP EXP., DUAL CREDIT |  |  | WACC-Building & Construction Trades |  |

|   |                                      |   |  |
|---|--------------------------------------|---|--|
| <b>ELT 160-</b><br>Fund. of Electricity- 3 hrs.     | <b>HRS 170-</b><br>Hydronics- 3 hrs. | <b>HRS 260-</b><br>Installation- 3 hrs.<br><br>Electives:<br><b>ELT, EET, HRS</b> -3 hrs. | Electives:<br><b>ELT, EET, HRS</b> -3 hrs.       |
| <b>IND 116-</b><br>Industrial Print Reading- 3 hrs. |                                      |   |  |
| <b>HRS 100-</b> EPA Certification- .5 hrs.          |                                      |   | <b>IND 250-</b><br>Industrial Internship- 3 hrs. |

**Recommended High School Electives:**

Electricity, Industrial Technology, Welding courses

**Relevant Articulated/Dual Courses:**

**SVCC Associate in Applied Science Degree:**

**Heating, Refrigeration, and Air Conditioning**

**SVCC Certificate:**

**Heating, Refrigeration, and Air Conditioning- Entry Level Technician**

**Cluster Related Careers:**

Heating and Cooling Mechanic-\$ 41,000-43,200  
 Appliance Installers and Repairers-\$ 36,100-42,200  
 Small Engine Mechanics-\$ 26,280-31,800