Air Conditioning Technology HVAC Mechanic
Maysville Community & Technical College
Rowan Campus Program Coordinator: Rob Hamm 606/783-1538 ext. 66373-Office: Room B207
E-Mail: robert.hamm@kctcs.edu
Maysville Campus Instructor Jack Hawkins 606-759-7141 ext. 66141-Office Technical Bldg T104
E-mail: jack.hawkins@kctcs.edu
Montgomery Campus Instructor- Adam Hawkins (859) 499-6282 ext. 66512 - Office: Room M124
E-mail: adam.hawkins@kctcs.edu

[Academic Plan Code: 4702014009; Academic Program Code: ENTC; CIP Code: 47020100]

Student Name ________________________________________ Student ID _____________________________________

Prerequisite Information: ACR 100 & ACR101 (taught only in the fall semester) must be taken prior to other ACR specific courses

<table>
<thead>
<tr>
<th>General Education &amp; Support Classes</th>
<th>Credit Hours</th>
<th>Semester Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one: Written Communication, Oral Communication OR Humanities/Heritage</td>
<td>3</td>
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</tr>
<tr>
<td>Choose one: Social/Behavioral Sciences, Natural Sciences OR Quantitative Reasoning</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Computer/Digital Literacy course OR Demonstrated competency</td>
<td>0-3</td>
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</table>

1. Good keyboarding skills needed for CIT105, OST105, or OS118.
2. Curriculum will lead to an AAS in GO/TS in area of Air Conditioning Technology. (See check sheet)
3. Required minimum ACT or COMPASS scores

<table>
<thead>
<tr>
<th>ACT</th>
<th>COMPASS</th>
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<tbody>
<tr>
<td>Math: 19</td>
<td>42 Pre-Algebra Domain</td>
</tr>
<tr>
<td>Reading: 20</td>
<td>80</td>
</tr>
<tr>
<td>Writing: 18</td>
<td>64</td>
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4. HVAC – Heating, Ventilation, and Air Conditioning

5. If you change from a certificate to a diploma or a degree program, additional reading and writing requirements must be met.

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>Credit Hours</th>
<th>Semester Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR 100 Refrigeration Fundamentals</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ACR 101 Refrigeration Fundamentals lab</td>
<td>2</td>
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<tr>
<td>ACR 102 HVAC Electricity</td>
<td>3</td>
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</tr>
<tr>
<td>ACR 103 HVAC Electricity lab OR Comparable Electrical Course*</td>
<td>2 (4-5)</td>
<td></td>
</tr>
<tr>
<td>ACR 130 Electrical Components</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ACR 131 Electrical Components lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ACR 170 Heat Load/Duct Design OR</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ACR209 Manual N Commercial Load Calculation &amp; Design</td>
<td>4</td>
<td></td>
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<tr>
<td>ACR 250 Cooling &amp; Dehumidification</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Core Requirements continued</th>
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<th>Semester Taken</th>
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<tbody>
<tr>
<td>ACR 251 Cooling &amp; Dehumidification lab</td>
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<tr>
<td>ACR 260 Heating &amp; Humidification</td>
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<tr>
<td>ACR 262 Heating &amp; Humidification lab</td>
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<tr>
<td>ACR 270 Heat Pump Application</td>
<td>3</td>
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<tr>
<td>ACR 271 Heat Pump Application lab OR</td>
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<tr>
<td>ACR 207 Commercial HVAC Systems</td>
<td>5 (5)</td>
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<tr>
<td>ACR291Special Problems OR</td>
<td>1</td>
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<tr>
<td>ACR298 Practicum</td>
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Electives (Technical) 8-11

47-56 TOTAL DIPLOMA CREDIT HOURS

Air Conditioning Technology Description:

Maysville Community & Technical College
More detailed and updated information may be available from the KCTCS Course Catalog
KCTCS is an equal opportunity employer and education institution.
02-08-16vo
Installing and servicing heating, air conditioning and refrigeration equipment is the focus of this program. Academic courses, theory courses, and laboratory experiences are designed to promote success in the air conditioning field.

Open Admission
Certificates

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Air Conditioning Technology Description:
Installing and servicing heating, air conditioning and refrigeration equipment is the focus of this program. Academic courses, theory courses, and laboratory experiences are designed to promote success in the air conditioning field.

ENVIRONMENTAL CONTROL SYSTEM SERVICER
[Academic Plan Code: 4702013039; Academic Program Code: ENTC; CIP Code: 47020100]

<table>
<thead>
<tr>
<th>Core Requirements</th>
<th>Credit Hours</th>
<th>Semester Taken</th>
<th>Core Requirements</th>
<th>Credit Hours</th>
<th>Semester Taken</th>
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<tbody>
<tr>
<td>ACR 100 Refrigeration Fundamentals</td>
<td>3</td>
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<td>ACR 130 Electrical Components</td>
<td>3</td>
<td></td>
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<tr>
<td>ACR 101 Refrigeration Fundamentals Lab</td>
<td>2</td>
<td></td>
<td>ACR 131 Electrical Components Lab</td>
<td>2</td>
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<tr>
<td>ACR 102 HVAC Electricity</td>
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<td></td>
<td>ACR 250 Cooling and Dehumidification</td>
<td>3</td>
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<tr>
<td>ACR 103 HVAC Electricity Lab OR</td>
<td>2</td>
<td>(4-5)</td>
<td>ACR 251 Cooling and Dehumidification Lab</td>
<td>2</td>
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<tr>
<td>Comparable Electrical Course*</td>
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<td>ACR 260 Heating and Humidification</td>
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<td>ACR 262 Heating and Humidification Lab</td>
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24-25 Credit Hours Total

ENVIRONMENTAL SYSTEM REPAIR HELPER
[Academic Plan Code: 4702013049; Academic Program Code: ENTC; CIP Code: 47020100]

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<td>Choose one with lab:</td>
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<td>ACR 103 HVAC Electricity Lab 2</td>
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<td></td>
<td>OR</td>
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<td>ACR 130 Electrical Components AND</td>
<td></td>
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<td>Comparable Electrical Course*</td>
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9-10 Credit Hours Total
### DOMESTIC AIR CONDITIONER AND FURNACE INSTALLER

**[Academic Plan Code: 4702013029; Academic Program Code: ENTC: CIP Code: 47020100]**

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<thead>
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<td>ACR 250 Cooling and Dehumidification</td>
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<td>ACR 101 Refrigeration Fundamentals Lab</td>
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<td>ACR 251 Cooling and Dehumidification Lab</td>
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<td>ACR 260 Heating &amp; Humidification</td>
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<td>ACR 103 HVAC Electricity Lab OR</td>
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<td>ACR 270 Heat Pump Application</td>
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<td>ACR 290 Journeyman Preparation</td>
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<td>ACR 170 Heat Load/Duct Design OR</td>
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<tr>
<td>ACR 209 Manual N Commercial Load</td>
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**35-36 Credit Hours Total**

### REFRIGERATION MECHANIC


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<td>ACR 201 Commercial Refrigeration Lab</td>
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<td>ACR 102 HVAC Electricity 3</td>
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<td>ACR 210 Ice Machines</td>
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<td>ACR 250 Cooling and Dehumidification</td>
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<tr>
<td>ACR 131 Electrical Components Lab</td>
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<td></td>
<td>ACR 251 Cooling and Dehumidification Lab</td>
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**27-28 Credit Hours Total**
CHILLER MAINTENANCE
[Academic Plan Code: 4702013089; Academic Program Code: ENTC; CIP Code: 47020100]

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<th>Core Requirements</th>
<th>Credit Hours</th>
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<tr>
<td>ACR 100 Refrigeration Fundamentals</td>
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<td>ACR 101 Refrigeration Fundamentals Lab</td>
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<tr>
<td>ACR 102 HVAC Electricity 3</td>
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<td>ACR 103 HVAC Electricity Lab OR</td>
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<tr>
<td>ACR 208 Chillers</td>
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19 Credit Hours Total

BOILER MAINTENANCE
[Academic Plan Code: 4702013079; Academic Program Code: ENTC; CIP Code: 47020100]

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<tbody>
<tr>
<td>ACR 100 Refrigeration Fundamentals</td>
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<td>ACR 101 Refrigeration Fundamentals Lab</td>
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<tr>
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<td>ACR 103 HVAC Electricity Lab OR</td>
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<tr>
<td>ACR 206 Boilers</td>
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<td>ACR 207 Commercial HVAC Systems</td>
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20 Credit Hours Total

Notes:
1. Good keyboarding skills needed for CIS100, OST105, or OS118.
2. Curriculum will lead to an AAS in GO/TS in area of Air Conditioning Technology. (See check sheet)
3. Required minimum ACT or COMPASS scores

<table>
<thead>
<tr>
<th>ACT</th>
<th>COMPASS</th>
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<tbody>
<tr>
<td>Math: 19</td>
<td>42 (PREAL Domain)</td>
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<tr>
<td>Reading: 20</td>
<td>80</td>
</tr>
<tr>
<td>Writing: 18</td>
<td>64</td>
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</tbody>
</table>

4. HVAC – Heating, Ventilation, and Air Conditioning
5. If you change from a certificate to a diploma or a degree program, additional reading and writing requirements must be met.