Heating, Air Conditioning and Refrigeration Technology
(Major Code 8015)

Advisers: Buchanan, Perry • Offered at Senatobia campus

Heating, Air Conditioning and Refrigeration Technology is a postsecondary instructional program that prepares individuals to work in engineering departments or private firms installing, maintaining, and operating small or medium air conditioning, heating, and refrigeration systems. Instruction prepares individuals to work in a commercial or residential setting performing special tasks relating to designing ductwork, assembling, installing, servicing, operating and maintaining heating and cooling systems according to the standards of the American Society of Heating, Refrigeration, and Air Conditioning Engineers Inc., Air Conditioning Contractors of America, and AHRI (Air Conditioning, Heating, and Refrigeration Institute). Included are air conditioning, heating, and refrigeration devices; equipment, techniques, and systems; and maintenance and operation of these systems. An Associate of Applied Science degree (66 hours) is awarded upon completion of the program. A two-year Career Certificate Program, which requires 54 semester credit hours, is also available. All students acquiring a degree must obtain universal EPA certification prior to graduation. All students acquiring a certificate must obtain Type I and II EPA certification. Both programs are designed to produce an entry-level technician. Admission is on a competitive basis and students are only admitted in the fall semester.

See special admissions requirements on page 41.

Please see adviser to get a current tool list.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Semester Hours</th>
<th>Second Semester</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 1124, Basic Compression Refrigeration*</td>
<td>4</td>
<td>ACT 1314, Refrigeration System Components*</td>
<td>4</td>
</tr>
<tr>
<td>ACT 1714, Electricity for Heating, Ventilation, Air Conditioning, &amp; Refrigeration*</td>
<td>4</td>
<td>ACT 1814, Professional Service Procedures*</td>
<td>4</td>
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<tr>
<td>ACT 1134, Tools &amp; Piping*</td>
<td>4</td>
<td>ACT 1214, Controls*</td>
<td>4</td>
</tr>
<tr>
<td>ENG 1113, Eng. Comp. I</td>
<td>3</td>
<td>Computer Elective</td>
<td>3</td>
</tr>
<tr>
<td>ACT 2913, Special Proj. in HVAC*</td>
<td>3</td>
<td>Math/Natural Science Elective</td>
<td>3</td>
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<tr>
<td>Total</td>
<td>18</td>
<td>Total</td>
<td>18</td>
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</tbody>
</table>

Students must pass with a “C” all ACT coursework prior to entering the following semester. CORE and Type I EPA certification must be passed before entering sophomore-level classes.

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Semester Hours</th>
<th>Second Semester</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT 2414, Air Conditioning I*</td>
<td>4</td>
<td>ACT 2424, Air Conditioning II*</td>
<td>4</td>
</tr>
<tr>
<td>ACT 2514, Heating Systems*</td>
<td>4</td>
<td>ACT 2324, Commercial Refriger.*</td>
<td>4</td>
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<tr>
<td>ACT 2624, Heat Load &amp; Air Prop.*</td>
<td>4</td>
<td>ACT 2434, Refrigerant, Retrofit, and Regulations*</td>
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</tr>
<tr>
<td>SPT 1113, Public Speaking I</td>
<td>3</td>
<td>Social/Behavioral Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Art Elective</td>
<td>3</td>
<td>Technical Elective*</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective (career certificate student only)*</td>
<td>(3)</td>
<td>Total</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>18/21</td>
<td>Total</td>
<td>18</td>
</tr>
</tbody>
</table>

* Classes required for a Career Certificate

Night courses are available with alternate sequence.

(continued on next page)
Industrial Electronics Engineering Technology  
(Major Code 6056)  
Advisers: Clark, Creecy • Offered at Senatobia campus  
The Industrial Electronics Engineering Technology program is designed to prepare graduates for a career in the installation, maintenance, testing, and repair of industrial electrical and electronic equipment and systems.  
This program introduces the fundamentals of electricity, electronics, digital techniques, electrical power distribution, motor controls, fluid systems controls, programmable logic controllers, and instrumentation.  
See special admissions requirements on page 41.  
Graduates will possess the skills necessary to enter the workforce as technicians in the field of telephone service, industrial electronics and electrical servicing, PLC and process control, industrial automation, power distribution, and as general electronic technicians.  
Upon satisfactory completion of this curriculum, an Associate of Applied Science degree is awarded. Students who complete a minimum of 36 semester hours in Industrial Electronics Engineering Technology courses may earn a Certificate in Industrial Electronics Engineering.  

**FRESHMAN YEAR**  

**First Semester**  
*EET 1114, DC Circuits ......................4  
*EET 1123, AC Circuits ......................3  
*EET 1214, Digital Electronics ............4  
ENG 1113, Eng. Comp. I .................3  
MAT 1313, College Algebra .............3  
Total 17  

**Second Semester**  
*EET 1334, Solid State Devices ..........4  
*EET 1343, Motor Control Systems ....3  
*EET 1133, Electrical Power ..........3  
CSC 1113, Computer Concepts ........3  
Elective .........................................3  
Total 16  

**SOPHOMORE YEAR**  

**Third Semester**  
*EET 1154, Equip. Maintenance ..4  
*/**EET 1174, Fluid Power ..........4  
*EET 2354, Solid State Motor Ctrl ..4  
*EET 2363, Prog. Logic Controllers ..3  
SPT 1113, Public Speaking I ........3  
Total 18  

**Fourth Semester**  
**ELT 1343, Fund. of Instr. ..........3  
ELT 2623, Adv. Prog. Logic Cont. ....3  
Humanities/Fine Arts Elective .......3  
Social/Behavioral Science Elective ....3  
Technical Elective ..................3  
Total 15  

Students must pass with a "C" all EET/ELT coursework prior to progressing to the next semester.  
* Courses required for career certification in industrial electronics.  
** Or an adviser approved technical elective.