

# Technical Studies

## Heating, Ventilation, and Air Conditioning

### *Associate in Applied Science*

The purpose of this curriculum is to better prepare individuals for the rapidly changing environment of industry and manufacturing. Very broad state guidelines for the course of studies have allowed local industry's requirements and future needs to be better incorporated into the curriculum. The Technical Studies in Heating, Ventilation, and Air Conditioning has been constructed in direct response to regional requirements allowing for a tailored educational program to be developed in a very short time frame. This format has also incorporated a work-based learning component that allows the College to provide college credit for on-the-job training such as apprenticeships, co-ops, and in-house training programs when appropriate. Graduates in a Technical Studies program may find employment in a wide variety of technology areas.



Technical Studies curriculums leading to Associate in Applied Science degrees encompass a wide area of emphasis including:

- Building Trades
- Computer Network Specialist
- Electrical Technology
- HVAC
- Industrial Maintenance I
- Machine Technology
- Nuclear Support Technology
- Welding

**Central Virginia Community College**

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AA/EEO/ADA • VTDD (434) 832-7701



New core curriculum for each area includes mathematics, team-building, technical writing, computer applications, and work-based learning. For further information regarding course content or scheduling of a Heating, Ventilation, and Air Conditioning curriculum or any other Technical Studies program contact the Counseling Center.

## Technical Studies: Heating, Ventilation and Air Conditioning — Degree Requirements

		First Year	
Course No.	Course Title	1st Sem.	2nd Sem.
MTH 103-104	Applied Technical Mathematics I-II	3	3
	Social Science Elective <sup>1</sup>	3	3
AIR 121	Air Conditioning and Refrigeration I	3	-
ENG 111	College Composition I	3	-
IND 165	Principles of Industrial Technology I	4	-
SDV 100	Orientation	1	-
	Computer Elective <sup>2</sup>	-	3
HLT 100	First Aid and CPR <sup>3</sup>	-	2
IND 236	Total Quality Concepts	-	3
ITE 150	Desktop Database Software	-	3
<b>Total</b>		<b>17</b>	<b>17</b>
		Second Year	
Course No.	Course Title	1st Sem.	2nd Sem.
AIR 134-135	Circuits and Controls I-II	4	4
AIR 154-155	Heating Systems I-II	3	3
	Work-Based Learning <sup>4</sup>	3	3
AIR 235	Heat Pumps	3	-
	Humanities Elective <sup>1</sup>	3	-
IND 140	Quality Control	2	-
ENG 131	Technical Report Writing I	-	3
IND 235	Statistical Quality Control	-	3
<b>Total</b>		<b>18</b>	<b>16</b>
<b>Minimum credits required to graduate</b>			<b>68</b>

<sup>1</sup> See course catalog for available courses.

<sup>2</sup> Select from BUS 226 Computer Business Applications or ITE 115 Introduction to Computer Applications and Concepts.

<sup>3</sup> Any two hours of HLT or PED will satisfy the HLT 100 requirement.

<sup>4</sup> Work-based learning is satisfied by completion of any one, or a combination of: Journeyman Card, three credit co-op work experience, or Standard Industry Examination.