



# AIR CONDITIONING & REFRIGERATION

## Associate in Science Degree Certificate of Achievement

The Air Conditioning and Refrigeration (HVAC/R) Program provides occupational training to prepare students for jobs in the HVAC/R industry, including the green economy sector (energy auditing). The program also provides valuable skill enhancement training to existing HVAC/R technicians who desire to expand and update their knowledge and skills to advance in the industry. Students in the program learn the theoretical, technical, and problem-solving skills essential for employment and advancement in the HVAC/R industry.

Students completing the program can seek employment as HVAC/R technicians, sales and consulting specialists, equipment and system installers, operations and maintenance technicians, building engineers, controls technicians, and energy auditing specialists. As a CTE program with an industry advisory council that meets annually and communicates regularly, we have developed an educational partnership with the area HVAC/R industry and we are meeting a defined need to provide qualified HVAC/R technicians and energy auditors to HVAC/R businesses that service corporations and homes in Ventura County and beyond. *For more information contact: Alan Ainsworth (805) 678-5042 [aainsworth@vcccd.edu](mailto:aainsworth@vcccd.edu)*

Required Core Courses		Units
AC R010	Introduction to Air Conditioning & Refrigeration	3.0
AC R010L	Introduction to Air Conditioning & Refrigeration I Lab	2.0
AC R011L	Introduction to Air Conditioning & Refrigeration II Lab	2.0
	<i>*Prerequisites: AC R010L</i>	
AC R020	Electrical Systems I	3.0
AC R020L	Electrical Systems I Lab	2.0
AC R021L	Electrical Systems II Lab	2.0
	<i>*Prerequisites: AC R020L</i>	
AC R030	Airside Systems	3.0
AC R030L	Airside Systems Lab	2.0
AC R040	Heating Control Systems	3.0
AC R040L	Heating Control Systems Lab	2.0
AC R050	Energy Auditing	3.0
	<i>*Corequisite: AC R050L</i>	
	<i>**Advisories: AC R010 and AC R010L or students should possess a strong understanding of air conditioning/refrigeration system operations.</i>	
AC R050L	Energy Auditing Lab	2.0
	<i>*Corequisite: AC R050</i>	
	<i>**Advisories: AC R010 and AC R010L or students should possess a strong understanding of air conditioning/refrigeration system operations.</i>	
<b>Total Required Major Units</b>		<b>29.0</b>
Oxnard College General Education Pattern		29.0
Double-Counted Units		0.0
Degree-Applicable Electives		+ 2.0
<b>Total units required for the A.S. Degree</b>		<b>60.0</b>

**\*\*General Education** This A.S./A.A. degree requires completion of the Oxnard College General Education Pattern\*\*