

HVAC AUTOMATED ENVIRONMENTAL CONTROLS CERTIFICATE

Division: Career Technical Education

PROGRAM CODE: 1C31189N

The HVAC Automated Environmental Controls Certificate (formerly Air Conditioning Environmental Controls Certificate) provides students with a career path for attaining the communication skills, practical knowledge, and technical training necessary for pursuing a career in controls and energy management. Students completing this certificate will develop an advanced understanding of building controls and energy management. To earn this certificate, complete the required courses as listed with a grade of C or better. At least 50% of all major course work must be completed at Cypress College. This certificate requires a total of 21 units.

Code	Title	Units
Required Courses are listed in suggested sequence (21 units):		
AC/R 100 C	Principles of Thermodynamics and Heat Transfer	3
AC/R 110 C	Air Conditioning I	2
AC/R 105 C	Electricity for Air Conditioning and Refrigeration I	3
AC/R 106 C	Electricity for Air Conditioning and Refrigeration II	3
AC/R 115 C	Gas Heat Transfer Systems	3
AC/R 135 C	Sustainability Design and Application (formerly Solar Energy for Heat and Cool)	2
AC/R 205 C	Commercial Air Conditioning	3
AC/R 220 C	Introduction to Air Conditioning Controls (formerly A/C Controls and Energy Management)	2
Total Units		21

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