GOALS AND OBJECTIVES

The Controls and Energy Management 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.

CERTIFICATE

Air Conditioning Environmental Controls (24 units)

To earn this certificate, complete the required courses as listed with a minimum grade of "C." At least 50% of all major course work must be completed at Cypress College.

CERTIFICATE

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Program Code: 1C3118	9	
Required courses are	listed in numeric sequence:	Units
AC/R 100 C	Principles of Thermodynamics and	
	Heat Transfer	3
AC/R 110 C	Air Conditioning I	3
AC/R 036 C	Refrigerants, Charging and Recovery	1
AC/R 137 C	Blueprints and Dimension Analysis	2
AC/R 050 C	HVAC-R Special Projects	.5-1
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 Heating and Carbon Monoxide	2
AC/R 125 C	Boiler and Hydronic Heating	2
AC/R 135 C	Solar Energy for Heat and Cool	2
AC/R 145 C	Load Calculations for Heating and Coolin	ng 2
AC/R 220 C	A/C Controls and Energy Management	2
	Total Units Required	25.5-26

Air Conditioning Environmental Controls = 25.5-26 units

Key Tips: You may opt to "double major" by applying some of these courses to other Air Conditioning & Refrigeration Degree/Certificate Programs. Remember to apply for certificates/degrees/graduation at the beginning of your last semester.

Updated 7/2019