


## CERTIFICATE

### Mechanical Systems Core Certificate = 12 units

Required courses are listed in numeric sequence:		Units
_____AC/R 035 C	Building Commissioning	2
_____AC/R 100 C	Principles of Thermodynamics and Heat Transfer	3
_____AC/R 110 C	Air Conditioning I	3
_____AC/R 120 C	Piping Practice, Tools and Safety	2
_____AC/R 137 C	Blueprints and Dimension Analysis	2
<b>Total Units Required</b>		<b>12</b>

 **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.

## GOALS AND OBJECTIVES

Primary emphasis of this program is to prepare the student with job entry-level skills. Although further training must be done in the remaining Sophomore classes, the student will have a strong background in fundamental skills of refrigeration, Tools & Safety, communication skills, and Computer Aided Drafting.

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### Mechanical Systems Core (12 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.