

# Air Conditioning and Refrigeration Tech (ACR)

**Title:** Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/Technician.

**Definition:** A program that prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing and using air conditioning, refrigeration, ventilation, and heating systems. Includes instruction in principles of heating and cooling technology, design and operational testing, inspection and maintenance procedures, installation and operation procedures, and report preparation.

**Type:** Standard Certificate

## Area I: Written Composition

Item #	Title	Credits
ENG 101	English Composition I	3

## Area II: Fine Arts, Humanities, and Speech, SPH 106 or SPH 107

Item #	Title	Credits
SPH 107	Fundamentals of Public Speaking	3

## Area III: Natural Sciences and Mathematics, MTH 116, CIS 146

Item #	Title	Credits
MTH 116	Mathematical Applications	3
CIS 146	Microcomputer Applications	3

## Area V: Additional General Education Courses, Major Courses and Electives

Item #	Title	Credits
ACR 111	Principles of Refrigeration	3
ACR 112	HVACR Service Procedures	3
ACR 113	Refrigeration Piping Practices	3
ACR 120	Fundamentals of electric Heating Systems	3
ACR 121	Principles of Electricity for HVACR	3
ACR 122	HVACR Electric Circuits	3
ACR 123	HVACR Electrical Components	3
ACR 127	Electric Motors and Components	3
ACR 192	HVAC Apprenticeship/Internship	3
WKO 106	Workplace Skills	3
WKO 110	NCCER Core	3
ORI 101	Orientation to College	2
<b>Total credits:</b>		<b>47</b>