

# AIR CONDITIONING AND REFRIGERATION

## Certificate of Achievement

### Air Conditioning

#### Program Sequence - 2015

1. Faculty Workload (FTEF):

2. Program Review Date: Fall, 2014

3. Program Requirements

Associate Degree Program Title: AIR CONDITIONING AND REFRIGERATION

Requirements	Department Name#	Name	Units	CSU GE	IGETC	Sequence
17 units from:	ACR 5	Electrical Applications	4			Year 1 - Fall
	ACR 21	Air Conditioning Fundamentals	4			Year 1 - Spring
	ACR 25	Energy Efficient Residential, Commercial and Industrial Air Conditioning	4			Year 2 - Spring
	ACR 27	Heating Technologies	4			Year 1 - Fall
	ACR 31	HVAC Electronics	2			Year 2 - Summer
	ACR 34	HVAC Customer Service/EPA Certification	1			Year 1 - Summer

Required Certificate Total: **17 units**

Completion of CSU-GE Breadth or IGETC Pattern: 37-39 units

Possible double counting: units

Transferable Electives (as needed to reach 60 units):

TOTAL UNITS: units

Proposed Sequence:

Year 1, Fall = units

Year 1, Spring = units

Year 1, Summer = units

Year 2, Fall = units

Year 2, Spring = units

TOTAL UNITS =

# Certificate of Achievement

## Refrigeration

### Program Sequence - 2015

1. Faculty Workload (FTEF):

2. Program Review Date: Fall, 2014

3. Program Requirements

Associate Degree Program Title: AIR CONDITIONING AND REFRIGERATION

Requirements	Department Name#	Name	Units	CSU GE	IGETC	Sequence
13 units from:	ACR 6	Refrigeration and Air Conditioning Control Systems	4			Year 2 - Fall
	ACR 21	Air Conditioning Fundamentals	4			Year 1 - Spring
	ACR 23	Commercial Refrigeration	4			Year 1 - Spring
	ACR 27	Heating Technologies	4			Year 1 - Fall
	ACR 34	HVAC Customer Service/EPA Certification	1			Year 1 - Summer

Required Certificate Total: **13 units**

Completion of CSU-GE Breadth or IGETC Pattern: 37-39 units

Possible double counting: units

Transferable Electives (as needed to reach 60 units):

TOTAL UNITS: 13 units

Proposed Sequence:

Year 1, Fall = units

Year 1, Spring = units

Year 1, Summer = units

Year 2, Fall = units

Year 2, Spring = units

TOTAL UNITS =

# AIR CONDITIONING AND REFRIGERATION

## Certificate of Achievement

*Heating, Ventilation and Air Conditioning (HVAC) and Refrigeration*

### Program Sequence - 2015

1. Faculty Workload (FTEF):

2. Program Review Date: Fall, 2014

3. Program Requirements-

Associate Degree Program Title: AIR CONDITIONING AND REFRIGERATION

Requirements	Department Name#	Name	Units	CSU GE	IGETC	Sequence
39 units from:	ACR 5	Electrical Applications	4			Year 1 - Fall
	ACR 6	Refrigeration and Air Conditioning Control Systems	4			Year 2 - Fall
	ACR 21	Air Conditioning Fundamentals	4			Year 1 – Spring
	ACR 23	Commercial Refrigeration	4			Year 1 - Spring
	ACR 25	Energy Efficient Residential, Commercial and Industrial Air Conditioning	4			Year 2 - Spring
	ACR 27	Heating Technologies	4			Year 1 - Fall
	ACR 30	Electric Controls	2			Year 1 - Summer
	ACR 31	HVAC Electronics	2			Year 2 - Summer
	ACR 34	HVAC Customer Service/EPA Certification	1			Year 1 - Summer
	ACR 61	Fundamentals of Automation Systems	3			Year 2 - Spring
	ACR 62	Energy Control and Optimization Systems	4			Year 2 - Fall
		<b>MATH 12</b> <i>or</i>	<b>Basic Arithmetic Skills</b>	<b>3</b>		
	<b>BUSINESS 15</b>	<b>Business Mathematics</b>	<b>3</b>			

Required Certificate Total: **39 units**

# Certificate of Achievement

## Electric Controls

### Program Sequence - 2015

1. Faculty Workload (FTEF):

2. Program Review Date: Fall, 2014

3. Program Requirements

Associate Degree Program Title: AIR CONDITIONING AND REFRIGERATION

Requirements	Department Name#	Name	Units	CSU GE	IGETC	Sequence
13 units from:	ACR 5	Electrical Applications	4			Year 1 - Fall
	ACR 6	Refrigeration and Air Conditioning Control Systems	4			Year 2 - Fall
	ACR 30	Electric Controls	2			Year 1 - Summer
	ACR 31	HVAC Electronics	2			Year 2 - Summer
	ACR 34	HVAC Customer Service/EPA Certification	1			Year 1 - Summer

Required Certificate Total: **13 units**

Completion of CSU-GE Breadth or IGETC Pattern: 37-39 units

Possible double counting: units

Transferable Electives (as needed to reach 60 units):

TOTAL UNITS: 13 units

Proposed Sequence:

Year 1, Fall = units

Year 1, Spring = units

Year 1, Summer = units

Year 2, Fall = units

Year 2, Spring = units

TOTAL UNITS =

