



## Engineering/Manufacturing & Industrial Technology Pathway

www.jccmi.edu

### Climate Control Technology Associate in Applied Science

Provides skills required for heating, air conditioning and refrigeration. Training areas include application techniques for basic and advanced air conditioning, heat pumps, fossil fuels, solar energy and refrigeration.

Minimum credits: 60  
Minimum cumulative GPA: 2.0  
Minimum JCC credits: 12  
MACRAO agreement: No

#### GENERAL EDUCATION REQUIREMENTS (17 credits)

##### ENGLISH (3 credits)

ENG 131 Writing Experience . . . . .3

##### MATHEMATICS (3-4 credits)

MTH 120 Beginning Algebra . . . . .3-4  
or higher level mathematics course

##### SCIENCE (4 credits)

Choose one of the following:

BIO 131 General Biology . . . . .4  
CEM 121 Chemistry of Life . . . . .4  
CEM 131 General Chemistry . . . . .4  
CEM 151 General Inorganic Chemistry . . . . .4  
GEL 160 Introduction to Geology . . . . .4  
NSC 131 Contemporary Science . . . . .4  
PHY 131 Our Physical World . . . . .4  
PHY 151 Astronomy . . . . .4

##### SOCIAL SCIENCE (3 credits)

Choose one of the following:

PLS 141 American National Government . . . . .3  
ECN 231 Macroeconomics . . . . .3

##### HUMANITIES (3 credits)

Choose one of the following:

PHL 231 Introduction to Philosophy . . . . .3  
PHL 232 Logic . . . . .3

##### HEALTH/PHYSICAL FITNESS (1 credit)

Choose one of the following:

HPF 160 Wellness . . . . .1  
HPF 168 Weight Training & Conditioning . . . . .2  
HPF 221 Jazz Techniques . . . . .3  
HPF 277 Stress Management . . . . .2  
HPF 278 Stress Management for Parents . . . . .2

#### CLIMATE CONTROL REQUIREMENTS (29 credits)

AIT 065 Sheet Metal . . . . .3  
AIT 121 Introduction to HVAC . . . . .3  
AIT 123 Application of HVAC Technology . . . . .3  
AIT 131 Basic HVAC Electricity/Controls . . . . .2  
AIT 135 Refrigeration/Air Conditioning I . . . . .3  
AIT 136 Refrigeration/Air Conditioning II . . . . .3  
AIT 137 Advanced HVAC Electricity/Controls . . . . .2  
AIT 141 Basic Heating . . . . .2  
AIT 142 Advanced Heating . . . . .2  
AIT 200 Mechanical Code . . . . .2  
AIT 201 Refrigeration Certification . . . . .1  
WLD 101 Welding . . . . .3

#### RELATED REQUIREMENTS (6 credits)

Choose two of the following:

BUS 155 Human Relations in Business . . . . .3  
ENG 232 Technical & Business Writing . . . . .3  
ITE 101 Information Technology Education . . . . .3

#### ADDITIONAL REQUIREMENTS

EMS 110 CPR & First Aid . . . . .2  
or current Adult CPR & First Aid Certification

#### ELECTIVES

Select electives from classes in any courses (except those with prefixes CED, CEU, CFO) so that degree equals 60 credits.