

Climate Control Technology Associate in Applied Science

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**Engineering/Manufacturing &
Industrial Technology**



www.jccmi.edu

CLIMATE CONTROL TECHNOLOGY – ASSOCIATE IN APPLIED SCIENCE (CLCS.AAS)

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 grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO agreement:.....	No

GENERAL EDUCATION REQUIREMENTS – (23 credits)

ADO 1: Write clearly, concisely and intelligibly (6 credits)

Take the following:

- ENG 131 Writing Experience
- ENG 232 Technical & Business Writing

ADO 2: Speak clearly, concisely and intelligibly (3 credits)

Choose one of the following:

- SPH 231 Communication Fundamentals
- SPH 240 Interpersonal Communication

ADO 3: Demonstrate computational skills and mathematical reasoning (3-5 credits)

Take the following:

- MTH 120 Beginning Algebra or higher

ADO 4: Demonstrate scientific reasoning (4-5 credits)

Choose one of the following:

- BIO 110 Introductory Biology
- BIO 131 General Biology
- BIO 132 Human Biology
- BIO 155 Anatomy & Physiology
- BIO 220 Microbiology
- BIO 253 Human Anatomy & Physiology I
- CEM 131 Fundamentals of Chemistry
- CEM 141 General Chemistry I
- GEL 160 Introduction to Geology
- NSC 131 Contemporary Science
- PHY 131 Conceptual Physics
- PHY 151 Astronomy
- PHY 231 College Physics I
- PHY 251 Modern University Physics I

ADO 5: Understand human behavior and social systems, the principles which govern them and their implications for the present and future (3-4 credits)

Choose one of the following:

- ECN 231 Macroeconomics
- ECN 232 Microeconomics
- HIS 131 Western Civilization to 1555
- HIS 132 Western Civilization 1555 to Present
- HIS 231 Development of the US through the Civil War
- HIS 232 Development of the US from the Civil War
- HIS 235 20th Century History
- PLS 141 American National Government
- PSY 140 Introduction to Psychology
- SOC 231 Principles of Sociology

ADO 6: Understand aesthetic experience and artistic creativity (3 credits)

Choose one of the following:

- ART 111 Art History: Prehistoric to 1400
- ART 112 Art History: Renaissance to Present
- ENG 210 Introduction to Film
- ENG 246 Short Story & Novel
- ENG 247 Poetry & Drama
- ENG 252 Shakespeare
- ENG 254 Children's Literature
- ENG 255 American Literature – 19th Century
- ENG 256 American Literature – 20th Century
- HUM 131 Cultural Connections
- MUS 131 Understanding Music
- THR 116 Introduction to Theatre

ADO 7: Think critically

Program courses meet this requirement

ADO 8: Make responsible decisions in personal and professional contexts (1-3 credits)

Choose one of the following:

- HPF 160 Wellness
- HPF 277 Stress Management
- HPF 283 Managing Stress & Holistic Health
- PHL 236 Ethics

ADO 9: Work productively with others, recognizing individual contributions to group success

Program courses meet this requirement

ADO 10: Understand and respect the diversity and interdependence of the world's peoples and cultures

Program courses meet this requirement

CLIMATE CONTROL TECHNOLOGY RELATED REQUIREMENTS – (3 credits)

Choose one of the following:

- BUA 120 Human Relations in Business

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CIS 101 Introduction to Computer Systems

CLIMATE CONTROL TECHNOLOGY CORE REQUIREMENTS – (27 credits)

Take the following:

CCT 117 Beginning Sheet Metal
CCT 118 Advanced Sheet Metal
CCT 121 Introduction to HVAC
CCT 123 Application of HVAC Technology
CCT 131 Basic HVAC Electrical/Controls
CCT 135 Basic Refrigeration/Air Conditioning I
CCT 136 Basic Refrigeration/Air Conditioning II
CCT 137 Advanced HVAC Electrical/Controls
CCT 141 Basic Heating
CCT 142 Advanced Heating
CCT 200 Mechanical Code
CCT 201 Refrigeration Certification

CLIMATE CONTROL TECHNOLOGY ADDITIONAL REQUIREMENTS

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

ELECTIVES – (1-7 credits)

Select electives from courses (except those with prefixes CED, CEU, CFO, CSS and ESL) so that degree equals 60 credits.