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Electrician Associate in Applied Science

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**Engineering/Manufacturing &
Industrial Technology**

ELECTRICIAN – ASSOCIATE IN APPLIED SCIENCE (ELEC.AAS)

Minimum credits:.....	62
Minimum cumulative GPA:.....	2.0
Minimum grade in all courses:.....	2.0
Minimum JCC credits:.....	12
MACRAO agreement:.....	No

GENERAL EDUCATION REQUIREMENTS – (20 credits)

ADO 1: Write clearly, concisely and intelligibly – (3 credits)

Take the following:

ENG 131 Writing Experience

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

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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

ELECTRICIAN CORE REQUIREMENTS – (42 credits)

Take the following:

ELT 074 National Electric Code

ELT 120 Circuit Analysis I

ELT 125 Circuit Analysis II

ELT 130 Electronics I

ELT 140 Introduction to Digital Electronics

ELT 148 Electrical Math I

ELT 149 Electrical Math II

ELT 150 Residential Wiring

ELT 151 Commercial Wiring

ELT 152 Industrial Wiring



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**Engineering/Manufacturing &
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- ELT 152 Industrial Wiring
 - ELT 215 Electrical Troubleshooting
 - ELT 220 Industrial Motion Control
 - ELT 250 Electrical Motors & Controls
 - ELT 260 Basic Programmable Controllers
 - ELT 265 SLC 500 Programming & Troubleshooting