

Electrician – Associate in Applied Science (ELEC.AAS)

Electricians install and maintain electrical systems in residential construction and commercial buildings. They also work in manufacturing settings, often servicing highly automated industrial processes. Increasingly electricians will be required to wire computer networks and telecommunications. This program will prepare students to work on each of these applications of electricity.

Minimum credits: 60

Minimum cumulative GPA: 2.0 Minimum grade in all courses: 2.0 Minimum Jackson College credits: 15

GENERAL EDUCATION REQUIREMENTS (20-23 CREDITS)

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

Take the following:

ENG 131 Writing Experience I

GEO 2: Recognize the importance of effective communication in a dynamic and changing society (3 credits)

Choose one of the following:

COM	231	Communication Fundamentals
COM	240	Interpersonal Communication
COM	250	Intercultural Communication
HIS	211	Minority Groups in America
HUM	131	Cultural Connections
PHL	243	Great World Religions
PLS	262	International Relations
PSY	152	Social Psychology (OR SOC 152 Social Psychology)
SOC	246	Marriage & Family

GEO 3: Demonstrate computational skills and mathematical reasoning (4 credits)

Take the following:

MAT 130 Quantitative Reasoning (or higher)

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

Choose one of the following:

BIO	110	Introductory Biology
CEM	131	Fundamentals of Chemistry
GEL	109	Earth Science
NSC	131	Contemporary Science
PHY	131	Conceptual Physics

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GEO 5: Understand human behavior and social systems, and the principles which govern them (3-4 credits)**

Choose one of the following:

ECN	231	Macroeconomics
ECN	232	Microeconomics
PLS	141	American National Government
PSY	130	General Psychology
SOC	231	Principles of Sociology

GEO 6: Identify artistic, linguistic, and theoretical perspectives across the human experience (3 credits)**

Choose one of the following:

ART	111	Art History: Prehistoric to 1400
ART	112	Art History: Renaissance to Present
HUM	131	Cultural Connections
MUS	131	Understanding Music
THR	116	Introduction to Theatre

ELECTRICIAN CORE REQUIREMENTS (40 CREDITS)

Take the following:

ELT	120	Circuit Analysis I
ELT	126	Circuit Analysis II
ELT	130	Electronics I
ELT	140	Introduction to Digital Electronics
ELT	150	Residential Wiring
ELT	151	Commercial Wiring
ELT	152	Industrial Wiring
ELT	215	Electrical Troubleshooting
ELT	220	Industrial Motion Control
ELT	250	Electrical Motors & Controls
ELT	260	Basic Programmable Controllers
ELT	261	Advanced PLC Programming
ELT	274	Electrician's National Code

ELECTRICIAN ADDITIONAL REQUIREMENTS

HOC 110 Advanced First Aid & American Heart CPR OR Current Adult CPR and First Aid Certification

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