

Electrician – Associate in Applied Science (ELEC.AAS) at Jackson College to Bachelor of Science in Electrical/Electronic Engineering Technology at Wayne State University

General Education Requirements (25 Credits)

Course Name	Credits
ENG 131 Writing Experience I	3
COM 250 Intercultural Communication	3
MAT 141 Pre-Calculus (Pre-req MAT 139)	5
PHY 131 Conceptual Physics	4
PSY 140 Introduction to Psychology	4
HUM 131 Cultural Connections	3
SEM 140 Seminar in Life Pathways	3

Electrician Core Requirements (42 Credits)

Course	Credits
ELT 120 Circuit Analysis I	4
ELT 126 Circuit Analysis II	4
ELT 130 Electronics I	4
ELT 140 Introduction to Digital Electronics	4
ELT 150 Residential Wiring	2
ELT 151 Commercial Wiring	2
ELT 152 Industrial Wiring	2
ELT 215 Electrical Troubleshooting	2
ELT 220 Industrial Motion Control	3
ELT 250 Electrical Motors & Controls	4
ELT 260 Basic Programmable Controllers	4
ELT 261 Advanced PLC Programming	2
ELT 274 Electrician's National Code	3
HOC 110 Advanced First Aid & American Heart CPR	2
OR	
Current Adult CPR and First Aid Certification	

MTA requirements (21 Credits)

Course Title	Credits
ENG 232 Tech & Business Writing	3
CEM 131 Fundamentals of Chemistry	5
PHY 231 College Physics	4
Approved Social Science (See MTA)	3
PHL-236-Ethics	3
Approved Humanities/Fine Arts (See Arts)	3

Expected WSU Engineering Technology Pathway Courses

*If courses are not completed at JC, students may not meet requirements and/or acceptance into desired program

Course	Credits
PHY-232-College Physics II (PHY2140/2141)	4