

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

The Bachelor of Science in Electrical/Electronic Engineering Technology is available to JC students who earn the Michigan Transfer Agreement (MTA), complete the WSU Expected Electrical/Electronic Engineering Technology Pathway Courses, and finish one of the Associate Degree programs listed in the Engineering Technology Pathway with a cumulative GPA of 2.5 or higher.

Under this agreement, Wayne State University will waive the 60-hour rule and require that a minimum of 58 credits be completed in courses offered by WSU. This allows students to complete more than 60 credit hours at Jackson College, and have those hours applied toward their bachelor's degree.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)

Course Title	Credits
ENG 131 Writing Experience I	3
HUM 131 Cultural Connections	3
MAT 141 Pre-Calculus (pre req-MAT 139)	5
PHY 131 Conceptual Physics	4
PSY 140 Introduction to Psychology	4
ART 112 Art History: Renaissance to present	3
SEM 140 Seminar in Life Pathways	3

CERTIFIED PRODUCTION TECHNICIAN CORE (16 CREDITS)

Course	Credit
MFG 135 Industrial Safety	3
MFG 136 Blueprint Reading and Precision Measurement	3
MFG 137 Production Processes and Fabrication	4
ELT 106 Basic Electricity and Fluid Systems	3
CAD 152 SolidWorks I	3

INDUSTRIAL SYSTEMS CORE (25 CREDITS)

Course	Credit
CAD 172 SolidWorks II	3
CAD 252 SolidWorks III	3
ELT 220 Industrial Motion Control	3
ELT 260 Basic Programmable Controllers	4
ELT 261 Advanced PLC	2
MFG 211 Robotics I	3
MFG 216 Robotics II	3
MFG 262 Introduction to IIOT	4

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

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

Courses	Credits
PHY-232-College Physics II	4
ELT-140-Intro to Digital Electronics	4