

# Electrical Service Technician

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## Associate in Occupational Studies Degree

This program prepares graduates for entry-level positions that involve the operation and maintenance of electro-mechanical systems commonly found in automated manufacturing environments. It also includes advanced coursework in programmable logic controllers (PLCs), vacuum systems, industrial electronics, and computer applications. Graduates are prepared to work in the operations, installation, and maintenance of automated and robotically-controlled systems. Systems-level analysis, assembly, and troubleshooting techniques are stressed with hands-on laboratory experiences to complement classroom-based instruction. Career-readiness and soft-skills are also emphasized throughout the program coursework.

\*A scientific calculator, a digital multi-meter, electronic breadboard, and hand tools are required.

\* PE172 Health and Wellness is the recommended elective for the physical education requirement.

### Total Credit Hours: 64

#### First Semester

CF100 College Foundations Seminar	1.0
ET105 Computer Cont Fund	2.0
ET127 Modern Industrial Practice	3.0
ET101 Tech Electricity 1	3.0
MA105 Technical Math 1	4.0
MT149 Pneumatic and Hydraulic System	3.0
Physical Education Elective	0.5

#### Second Semester

ET102 Tech Electricity 2	3.0
ET104 Systems Diagrams	3.0
ET131 Elec Mach&Contr 1	4.0
ET251 Mechatronic Systems	3.0
MT139 Mechanical Systems	4.0
Physical Education Elective	0.5

#### Third Semester

ET141 Programmable Logic Cont	3.0
ET233 Industrial Electronics	4.0
ET236 Commerical-Industrial Wiring	4.0
EN110 Oral&Writn Communctn	3.0
Physical Education Elective	0.5

#### Fourth Semester

ET241 Programmable Logic Cont 2	3.0
ET246 Indus Computer App	5.0
ET232 Elec Mach&Cntrl 2	4.0
MT210 Intro to Vacuum Syst Maint	3.0
Physical Education Elective	0.5