



MOTOR CONTROLS

Course Number Course Name	ELEC 160 MOTOR CONTROLS
Credit Value (Breakdown of theory and lab credits)	3, 3T+0S
Catalog Course Description	Theory in across-the-line starters, solid-state control, programmable control, pilot devices, line and wiring diagrams, troubleshooting, repair techniques. <i>Co-requisite:</i> ELEC 160L. (3, 3T+0S)
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Outcomes</p> <ul style="list-style-type: none"> • Understand ratings and specifications of controls and devices • Read, understand and interpret schematic, ladder, and pictorial diagrams • Able to wire start/Stop stations • Able to wire forward reversing start with interlocks • Identify parts of a motor to its leads • Identify types of three-phase motors • Identify types of single-phase motors <p>Topics</p> <ul style="list-style-type: none"> • Electrical Quantities • Electrical symbols • Control logic • Solenoids and motors Generators and transformers Power distribution • AC and DC drives Control Devices Reversing Motors • Relays and starters sensing controls • Reduced voltage starters
College-Wide Student Learning Outcomes	