

## ELEC2222 - Advanced Programmable Logic Controllers

Credits:	3 (1/2/0)
Description:	This course presents practical applications of Advanced Programmable Logic Controllers (APC) with emphasis on advanced programming techniques and analog modules, input devices and hands-on wiring of Programmable Logic Controller (PLC) circuits. PLC programs are created and installed for operation of actual electrical equipment.
Prerequisites:	• ELEC2208
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol> <li>Exhibit safe work habits.</li> <li>Identify fault codes.</li> <li>Understand sequencing instructions.</li> <li>Design PLC-controlled motor starter circuit.</li> <li>Install PLC software.</li> <li>Demonstrate stop light sequencing.</li> <li>Calculate power supply sizing.</li> <li>Troubleshoot program data.</li> <li>Interpret data transfer file.</li> </ol>
MnTC goal areas:	None

<sup>\*</sup>Can be taking as a Prerequisite or Corequisite.