

## 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:	<ul style="list-style-type: none"> <li>• ELEC2208</li> </ul>
Corequisites:	
Pre/Corequisites*:	
Competencies:	<ol style="list-style-type: none"> <li>1. Exhibit safe work habits.</li> <li>2. Identify fault codes.</li> <li>3. Understand sequencing instructions.</li> <li>4. Design PLC-controlled motor starter circuit.</li> <li>5. Install PLC software.</li> <li>6. Demonstrate stop light sequencing.</li> <li>7. Calculate power supply sizing.</li> <li>8. Troubleshoot program data.</li> <li>9. Interpret data transfer file.</li> </ol>
MnTC goal areas:	None

\*Can be taking as a Prerequisite or Corequisite.