## ELEC 2260L SYLLABUS

<table>
<thead>
<tr>
<th>Course Number Course Name</th>
<th>ELEC 2260L Motor Controls Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Value (Breakdown of theory and lab credits)</td>
<td>2 (2 Lab)</td>
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<tr>
<td>Catalog Course Description</td>
<td>Students will learn apply different techniques to control motors. Both DC and AC motors will be cover. Topics such as magnetic control, manual/automatic pilot devices, control transformers, relays, timers, and starters will be covered. Co-requisites: ELEC 2260; Pre-requisites: ELEC 1150</td>
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</tbody>
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| Student Learning Outcomes/Objectives/Competencies of the Course | Outcomes  
- Identify parts of a motor to its leads  
- Identify types of three-phase motors  
- Identify types of single-phase motors  

Topics  
- Magnetism and induction  
- Motors nameplates  
- AC alternators  
- Three-phase motors  
- Squirrel-cage motors  
- Wound-rotor motors  
- Single-phase motors  
- Motor protection  
- DC motors and generators  
- Starting  
- Motor branch circuits  
- Motor branch circuits protection  
- Motor overload protection  
- Sizing motor disconnect |
| College-Wide Student Learning Outcomes | College Wide Student Learning Outcomes:  
Communication  
Critical Thought |