



## ELEC 2260 SYLLABUS

<b>Course Number Course Name</b>	ELEC 2260 Motor Theory
<b>Credit Value (Breakdown of theory and lab credits)</b>	2 (2 Theory)
<b>Catalog Course Description</b>	Students will learn the underlying theory of motor operations. Both DC and AC motors will be covered. Topics such as motor protection and sizing will be also covered. Co-requisites: ELEC 2260L; Pre-requisites: ELEC 1150
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<p>Outcomes</p> <ul style="list-style-type: none"> <li>• Identify parts of a motor to its leads</li> <li>• Identify types of three-phase motors</li> <li>• Identify types of single-phase motors</li> </ul> <p>Topics</p> <ul style="list-style-type: none"> <li>• Magnetism and induction</li> <li>• Motors nameplates</li> <li>• AC alternators</li> <li>• Three-phase motors</li> <li>• Squirrel-cage motors</li> <li>• Wound-rotor motors</li> <li>• Single-phase motors</li> <li>• Motor protection</li> <li>• DC motors and generators</li> <li>• Starting</li> <li>• Motor branch circuits</li> <li>• Motor branch circuits protection</li> <li>• Motor overload protection</li> <li>• Sizing motor disconnect</li> </ul>
<b>College-Wide Student Learning Outcomes</b>	<i>College Wide Student Learning Outcomes: Communication Critical Thought</i>