



## ELEC 2250 SYLLABUS

<b>Course Number Course Name</b>	ELEC 2250 Digital Electronics
<b>Credit Value (Breakdown of theory and lab credits)</b>	2 (2 Theory)
<b>Catalog Course Description</b>	Students will learn Boolean algebra and its role in digital electronics. Similarly, students will learn about basic logic operations and how they are used to build digital circuits. Co-requisites: ELEC 1140
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<p>Outcomes</p> <ul style="list-style-type: none"> <li>• Understand basic logic functions</li> <li>• Apply Boolean Algebra for basic digital circuit design</li> </ul> <p>Topics</p> <ul style="list-style-type: none"> <li>• Introduction to digital electronics</li> <li>• Introduction to Boolean Algebra</li> <li>• AND logic</li> <li>• OR logic</li> <li>• BUFFER and INVERTER amplifiers</li> <li>• NAND and NOR logic</li> <li>• XOR and XNOR logic</li> <li>• Debouncing circuits</li> </ul>
<b>College-Wide Student Learning Outcomes</b>	<i>College Wide Student Learning Outcomes: Communication Critical Thought</i>