



ELECTRICAL THEORY I

Course Number	ELEC 140
Course Name	ELECTRICAL THEORY I
Credit Value (Breakdown of theory and lab credits)	3, 3T+0S
Catalog Course Description	Basic electrical theory, OHMs Law, series and parallel circuits, electrical symbols, AC and DC circuits. (3, 3T+0S)
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Outcomes</p> <ul style="list-style-type: none"> • Explain the concept of electron movement and the nature of electricity. • Apply Ohm's law as it pertains to direct current circuits. • Calculate and solve direct current series circuit problems. • Calculate and solve direct current parallel circuit problems. • Calculate and solve direct current series-parallel circuit problems. <p>Topics</p> <ul style="list-style-type: none"> • Matter and Atomic theory • Electron theory • Electricity and Electric current flow • Electrical circuits • Math • Electrical formulas • Series circuits • Parallel circuits • Series-parallel circuits
College-Wide Student Learning Outcomes	Critical Thought