



ELEC 2240 SYLLABUS

Course Number Course Name	ELEC 2240 Transformers
Credit Value (Breakdown of theory and lab credits)	1 (1 Theory)
Catalog Course Description	Students will learn the fundamentals of transformers operations including the basic physical laws of magnetism and electromagnetism that govern the operation of a transformer. Similarly, students will be exposed to the principles of power generation and distribution. Pre-requisites: ELEC 1150
Student Learning Outcomes/Objectives /Competencies of the Course	<p>Outcomes</p> <ul style="list-style-type: none"> • Explain how a transformer works • Explain how power is generated and distributed <p>Topics</p> <ul style="list-style-type: none"> • Magnetism and electromagnetism • Transformers operation • Transformer connections • Real world transformer connections • Harmonics • Power generation and distribution
College-Wide Student Learning Outcomes	<i>College Wide Student Learning Outcomes:</i> Communication Critical Thought