

Department: Construction Technology

Degree or Certificate: Renewable Energy Technology - Electrical Technology II

Program Curriculum Map: Created 1/13/15 Updated: 12/3/2018

Program Outcome (PO) 1:	Understand basic Theory of Electromagnetism and show proficient use of terminology associated with the Electrical industry. (SLO: Foundational Knowledge) - Understand the broad availability of renewable energy technologies and show a fundamental understanding of key terminology associated with the renewable and sustainable industry. (SLO: Foundational Knowledge)
Program Outcome (PO) 2:	Demonstrate a working knowledge of core equipment and installation procedures with Electrical equipment from Residential through Industrial applications. (SLO: Application) - Demonstrate a basic knowledge of the calculations associated with determining renewable and sustainable energy practices specifically related to the Electrical field, i.e. Solar Photovoltaic and Wind technology. (SLO: Application)
Program Outcome (PO) 3:	Show basic knowledge of the National Electrical Code (NEC) by using wiring techniques demonstrating code regulations and familiarity with the location of specific electrical wiring information. (SLO: Integration) - Given real life situations and settings, calculate and design a suitable recommendation for renewable and sustainable living. (SLO: Integration)
Program Outcome (PO) 4:	Through lab or field work, develop cooperation skills with other trades in the installation of electrical wiring and equipment. (SLO: Human Dimension) - Understand the esthetic and personal appreciation of consumers interested in the renewable and sustainable building industry. (SLO: Human Dimension)
Program Outcome (PO) 5:	Perform Electrical installations to meet Electrical Code specifications and demonstrate a professional, clean, neat work ethic. (SLO: Caring) - Incorporate energy savings methods into a renewable or sustainable building proposal to reduce costs to consumer. (SLO: Caring)

	Course	PO 1	PO 2	PO 3	PO 4	PO 5
Introduction to Electrical	ELE101	I	I			
Beginning Residential Electrical	ELE105	R	R	I		
Advanced Residential Electrical	ELE121	A	R	R		
Commercial Electrical	ELE131	R	R	R	R	R
Principles of Renewable Energy	EGY101	I	A	R	R	
Sustainable Building Design	EGY105	I	R	A	R	
Solar Photovoltaic Technology I	EGY141	I	R	R	R	A

Introduced
Reinforced
Assessed

Program Code: 065