

Student Outcome (c)

Graduates of the ELEC/ECPE/WIRN Programs will demonstrate an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

		Rubric			
		Unsatisfactory	Developing	Meets expectations	Exceeds expectations
Performance Indicators	Use knowledge, methods, processes and tools to create a design that meets stated requirements	Can't combine and integrate knowledge, methods, processes and tools to create a design.	Can partially combine and integrate knowledge, methods, processes and tools to create a design.	Can fully combine and integrate knowledge, methods, processes and tools to create a design.	Can fully combine and integrate knowledge, devise new or alternate methods, processes and tools to create a design.
	Evaluate if a design meets desired needs	Does not verify design against desired needs or design does not respond to desired needs.	Partially verifies design against desired needs or design partially complies with desired needs.	Design is verified against desired needs and complies with most desired needs.	Design fully complies with desired needs or even exceeds the expressed needs.
	Consider realistic constraints in the design	Does not consider constraints of any kind.	Considers some constraints, but does not deal with realistic constraints, or does so weakly.	Considers at least one realistic constraint, and deals with it appropriately.	Considers more than one realistic constraint, and deals with them effectively.
	Testing of the final design	Conducts no meaningful tests of the design	Conducts some appropriate tests, but only partial or incomplete.	Conducts reasonable testing of the design.	Develops innovative and complete tests of the design.