

## Rubric for Program Outcome C - analog

**An ability to design a system, component, or process to meet desired needs**

**Assessment will be based on an evaluation of specific design assignments in EECE 315. A student will demonstrate successful completion of this outcome by achieving a score of 5 of 8 (based on the assessment rubric shown in the following table).**

Evaluation Measures	Inadequate	Marginal	Adequate	
Scale	0	1	2	Score
Able to use specifications and guidelines to arrive at a first-pass design	Shows little comprehension of how to relate specifications and guidelines to component selection	Properly relates some specifications and guidelines to component selection	Uses all specifications and appropriate guidelines to constrain component selections	
Able to develop and use equations to refine a first-pass design	Most relevant equations either in error or missing	Most equations correctly entered and applied	Equations correct. Successive trial designs integrated intelligently	
Able to use suitable simulation software to fine-tune and verify a design	Unable to use software correctly even for a given circuit	Able to simulate design, but not to correlate results to design revisions	Able to enter the circuit correctly, run it and correctly interpret results	
Able to use lab equipment to validate a design	Unable to use lab equipment to evaluate a design	Needs coaching to be able to use lab equipment to measure specifications	Able to use lab equipment to measure specifications without supervision	
			<b>Total</b>	