

2013 Scanning Sheet. Assignment Description: \_\_\_\_\_ Instructor: \_\_\_\_\_ Date: \_\_\_\_\_ Scanned File Name: \_\_\_\_\_

ABET Outcomes											Rubric or student %	Example problem	Outcome #	EET 114 AC Circuits (3) – Outcomes Reviewed 2013
A	B	C	D	E	F	G	H	I	J	K				
2	1	1	1		1								1	Use Kirchoff's law to determine the current in a branch and a voltage between two nodes in an AC circuit
2	1	1	1		1								2	Use Thevenin's (Norton's) Theorem nodal analysis and the superposition theorem to analyze a simple circuit with at least 3 components in an AC circuit.
2	1	2	1	1	1								3	Conduct AC analysis and measurement on circuits with independent sources.
2	1	2	1	1	1								4	Conduct AC analysis and measurement on circuits that have resistors, capacitors, and inductors to determine frequency response.
2	1	1	1		1								5	Compute the power in a circuit with resistors, capacitors, inductors, independent sources and dependent sources.
2	1	1	1		1								6	Use available circuit simulation software to simulate AC circuit behavior.
2	1	1	1		1								7	Analyze circuits using phasors.
2	1	1	1		1								8	Analyze simple RL and RC DC switching circuits.
2	1	2	1	1	1								9	Be able to measure the AC voltage between two nodes and AC current through a branch using a multimeter.
2	1	2	1	1	1								10	Be able to measure the phase difference between two AC voltages using an oscilloscope.
1	1		1				2						11	Effectively prepare written reports of circuit experiments.

1=supporting contribution

2=significant contribution

Rubric  5: Excellent Mastery of Outcome By Vast Majority of Students  4: Good Mastery of Outcome By Vast Majority of Students 3: Adequate Mastery of Outcome By Majority of Students 2: Marginal Mastery of Outcome By Most Students  1: Lack of Mastery of Concept By Most Students	a.	defined engineering technology activities
	b.	an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies
	c.	an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
	d.	an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
	e.	an ability to function effectively as a member or leader on a technical team
	f.	an ability to identify, analyze, and solve broadly-defined engineering technology problems
	g.	an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature
	h.	an understanding of the need for and an ability to engage in self-directed continuing professional development
	i.	an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity
	j.	a knowledge of the impact of engineering technology solutions in a societal and global context; and
	k.	a commitment to quality, timeliness, and continuous improvement.

Improvement Suggestions or Comments: