

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

ABET Outcomes											Rubric or student %	Example problem	Outcome #	EE 482 Electromechanics (3) – Outcomes Reviewed 2013
A	B	C	D	E	F	G	H	I	J	K				
1				1				1					1	Electrical and magnetic circuits (phasors, real/apparent/reactive power, power factor, and 3-phase circuits)
	2												2	Analyze transformers and perform test to determine a suitable equivalent circuit.
	2												3	Analyze DC machines and perform tests to determine a suitable equivalent circuit.
													4	Understand electrical to mechanical power/energy conversion (i.e. $VI = P = T \cdot \omega$).
		1		2									5	Analyze AC machines (synchronous and induction) and perform tests to determine a suitable equivalent circuit.
1	1												6	Conduct laboratories to operate DC and AC machines, measure voltage and current, and interpret recorded data.

1=supporting contribution
2=significant contribution

Rubric	
5: Excellent Mastery of Outcome By Vast Majority of Students	a. an ability to apply knowledge of mathematics, science, and engineering
4: Good Mastery of Outcome By Vast Majority of Students	b. an ability to design and conduct experiments, as well as to analyze and interpret data
3: Adequate Mastery of Outcome By Majority of Students	c. 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
2: Marginal Mastery of Outcome By Most Students	d. an ability to function on multi-disciplinary teams
1: Lack of Mastery of Concept By Most Students	e. an ability to identify, formulate, and solve engineering problems
	f. an understanding of professional and ethical responsibility
	g. an ability to communicate effectively
	h. the broad education necessary to understand the impact of engineering solution in a global, economic, environmental, and societal context
Improvement Suggestions or Comments:	i. a recognition of the need for, and an ability to engage in life-long learning
	j. a knowledge of contemporary issues
	k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice