

2013 Scanning Sheet. Assignment Description:

Instructor: \_\_\_\_\_

Date: \_\_\_\_\_

Scanned File Name: \_\_\_\_\_

ABET Outcomes											Rubric or student %	Example problem	E	
A	B	C	D	E	F	G	H	I	J	K			Outcome #	EE 106: Introduction to Electrical/Computer Engineering 1 - Outcomes Revised 2013
													1	Convert between number systems (e.g., binary, decimal, hexadecimal and binary-coded decimal).
													2	Perform operations of addition and subtraction using signed and unsigned binary numbers.
													3	Manipulate Boolean logic using truth tables and mathematical expressions.
													4	Analyze combinational logic circuits using AND, NOT, OR, NOR, NAND and XOR logic gates.
				2								E1	5	Simplify combinational logic circuits using Boolean algebra
		1											6	Simplify logic expressions (in the form of minterms and maxterms) using Karnaugh Maps
				1									7	Translate Boolean logic into physical logic circuits
	1	2		1									8	Use universal NAND and NOR gates to realize logic expressions
				2									9	Be able to analyze SR latches
				2								E2	10	Be able to design and analyze D and JK flip-flops
	1												11	Use flip-flops (JK, D-type, etc.) in the design of counters and shift registers.
	1	2		1									12	Implement logic circuits with multiplexers, demultiplexers, encoders and decoders.

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. an ability to apply knowledge of mathematics, science, and engineering	
	b. an ability to design and conduct experiments, as well as to analyze and interpret data	
	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	
	d. an ability to function on multi-disciplinary teams	
	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	
	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	
	Improvement Suggestions or Comments:	