

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

ABET Outcomes											Rubric or student %	Example problem	Outcome #	EE 244 Introductions to Digital Systems (2) – Reviewed 2013
A	B	C	D	E	F	G	H	I	J	K				
													1	Convert numbers between binary and decimal, binary and hexadecimal and binary and binary coded decimal notation.
													2	Perform the mathematical operations of addition, subtraction and multiplications using signed and unsigned binary numbers.
													3	Analyze combinational logic circuits using AND, NOT, OR, NOR, NAND, and XOR logic gates.
1		1											4	Design and simplify combinational logic circuits using truth tables, Karnaugh Maps and Boolean algebra.
												2	5	Use a hardware-description language (HDL), such as ABEL, to model combinational circuits and use software to simulate circuit behavior.
1		1											6	Use flip- flops (JK, D-type, etc.) in the design of counters and shift registers.
1		1											7	Design sequential logic circuits using Mealy and Moore models.
			1										8	Use a hardware-description language (HDL), such as ABEL, to model counters, registers and finite state machines; and simulate their output responses.

1=supporting contribution  
2=significant contribution

<b>Rubric</b>  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
Improvement Suggestions or Comments:	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