

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

ABET Outcomes											Rubric or student %	Example problem	F G H	
A	B	C	D	E	F	G	H	I	J	K			Outcome #	EE 337 Principles of Engineering Design II (1) – Outcomes Reviewed 2013
		1	2	1							2	2	Verify project specifications.	
		1	2	1							2	3	Conduct “brain storming sessions” to support design efforts.	
	2	2	2	2							2	4	Implement a microprocessor based system with (USB/RS232) interface and power.	
			2	2	2			2			2	5	Function on interdisciplinary design teams to complete a project and develop assessment skills for evaluation of team members	
	2		2	2	2			2			2	6	Implement designs with adherence to real world constraints	
			2			2	2				2	7	Demonstrate appropriate verbal communication skills through project presentations.	
						2						8	Final Project Reports.	
					2	2	2				2	9	Present, analyze and critique ethics scenarios.	
						2	2				2	10	Prepare and maintain an appropriate engineering notebook.	
							1	2		1	2	11	Use “tools” that are appropriate to the practice of engineering to include both CAE and “soft engineering” tools such as word processor and spreadsheets.	
		2									2	12	Project to be constructed on a printed circuit board designed and ordered by student teams.	

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: