2014 Scanning Sheet. Assignment Description:

Instructor:

Date:

Scanned File Name:

	ABET Outcomes F									Rubric or	Example		I and the second
Α	В	С	D E	F	G	Н	I	J	K	student %	problem	Outcome #	EE 477W Principles of Engineering Design IV (1) - Outcomes Revised 2016
													Design and implement a design based on analog, digital and microprocessor systems must include programmable
2		2	2	2					2			1	logic.
			2									2	Function on interdisciplinary design teams and develop assessment skills for evaluation of team members.
		2	2	2								3	Complete designs with adherence to real world constraints
					2							4	Demonstrate appropriate verbal communication skills through project presentations.
													Demonstrate appropriate written communication skills through project documentation including: Engineering
		2			1							5	Change Orders, Project Budgets, Project Plans, Testing Plans, Specifications, and Final Project Reports
1		2			1							6	Manage design and development of projects.
				2		2	2	2				7	Present, analyze and critique ethics scenarios.
									1			8	Prepare an appropriate engineering notebook.
		1			1							9	Evaluate and document software and hardware trade offs.
									1			10	Design and have manufactured printed circuit boards.
													Use "tools" that are appropriate to the practice of engineering to include CAE tools for schematic capture, printed
													circuit board layout and circuit simulation as well as tools associate with "soft engineering" such as word
									2			11	processors and spreadsheets.
						2						12	Understand the impact of engineering solution in a global, economic, environmental, and societal context.
							2				I	13	Recognize the need for, and ability to engage in life-long learning.
								2				14	Understand contemporary issues.

## 1=supporting contribution 2=significant contribution

2=significant contribution	a. an ability to apply knowledge of mathematics, science, and engineering		
Rubric	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,		
5: Excellent Mastery of Outcome By Vast Majority of Students	environmental, social, political, ethical, health and safety, manufacturability, and sustainability		
4: Good Mastery of Outcome By Vast Majority of Students	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		
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	g. an ability to communicate effectively		
	h. the broad education necessary to understand the impact of engineering solution in a global, economic, environmental, and		
nprovement Suggestions or Comments:	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		