

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

ABET Outcomes											Rubric or student %	Example problem	Outcome #	EET 461 Industrial Automation I (4) - Outcomes Revised 2013
A	B	C	D	E	F	G	H	I	J	K				
2	1	2	2	1	1	1				1			1	Use servo drives, controllers and motors in automation systems.
2	1	2	2	1	1	1				1			2	Use actuators in automation systems.
2	1	2	2	1	1	1				1			3	Use encoders in automation systems.
2	1	2	2	1	1	1				1			4	Characterize performance of automation equipment.
2	1	2	2	1	1	1				1			5	Use sensors in automation systems.
2	1	2	2	1	1	1				1			6	Use PLC's to control automation equipment.
2	1	2	2	1	1	1				1			7	Describe the elements of an automation system.
2	1	2	2	1	1	1				1			8	Effectively identify, formulate and implement a control system.
2	1	2	2	1	1	1	2	2	2	1			9	Participate in a group atmosphere for the defining, planning, and execution of an open ended automation problem.
2	1	2	2	1	1	1	2	2		1			10	Develop an understanding of ethical and professional responsibilities in industrial automation.
2	1	2	2	1	1	1			2	1			11	Communicate effectively both verbally and in written form through the preparation of project report and a class presentation.
2	1	2	2	1	1	1				1			12	Study and implement appropriate project documentation standards.
2	1	2	2	1	1	1	2	2		1			13	Develop an understanding of economic issues related to industrial automation systems.
							2						14	A recognition of the need for, and an ability to engage in lifelong learning.
								2					15	An ability to understand professional, ethical and social responsibilities.
									2				16	A respect for diversity and a knowledge of contemporary professional, societal and global issues.
										2			17	A commitment to quality, timeliness, and continuous improvement.
2	1	1											18	Use Project Schedule Management Tools

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 select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly defined engineering technology activities	
	b.	an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies	
	c.	an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes	
	d.	an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives	
	e.	an ability to function effectively as a member or leader on a technical team	
	f.	an ability to identify, analyze, and solve broadly-defined engineering technology problems	
	g.	an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature	
	h.	an understanding of the need for and an ability to engage in self-directed continuing professional development	
	i.	for diversity	
	j.	a knowledge of the impact of engineering technology solutions in a societal and global context; and	
	k.	a commitment to quality, timeliness, and continuous improvement.	
	Improvement Suggestions or Comments:		