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

| ABET Outcomes | | | | | | | | | | | Rubric or student % | Example problem | Outcome # | EET 310 Programming Tools (4) - Outcomes Reviewed 2013 |
A	B	C	D	E	F	G	H	I	J	K				
2	1	2	2		2		1			1			1	Analyze, brainstorm, and design/implement specialized hardware to suit the needs of a specific application. Then control the specialized hardware with programming tools such as: LabVIEW, Keil/Atmel studio, and one of the following: SciLab/Matlab/Maple/Mathcad.
2	1	2	2		2								2	Use LabVIEW Virtual instrument environment to create programs to control/interface with hardware and perform numerical analysis, and debug those programs.
2													3	Use Matlab to implement numerical analysis programs.
1	1		1											Understand model-based design concepts and use software tools to create design models.
2		2											5	Create software applications to control/augment hardware.
2		2											6	Create software programs that can save data collected from hardware and retrieve the data from the saved files.
1	1												7	Use scripting languages to automate processes in Matlab/LabVIEW and/or analyzing data on the computer.
1	1					1							8	Analyze data collected from hardware using Excel
1	1					2							9	Create 2-D and 3-D plots/graphs/charts in SciLab, Matlab, Mathcad, or Maple.

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

Improvement Suggestions or Comments:

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.	an understanding of and a commitment to address professional and ethical responsibilities including a respect 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.