

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

ABET Outcomes											Rubric or student %	Example problem	Outcome #	EE 476 Antennas Microwaves and propagation (3) – Outcomes Reviewed 2013
A	B	C	D	E	F	G	H	I	J	K				
2	2	2		2			2			1			1	Understand the radiation mechanism of an antenna
2		2		2			2	1		2			2	Understand the fundamental parameters of an Antenna.
2	1	2		2			2	1		1			3	Understand and Analyze linear wire antennas
2	2	2		2			2	1		1			4	Analyze Antenna Arrays
2	2	2		2			2	1	1	1			5	Analyze and design of broadband antenna
2	2	2		2			2		1	1			6	Analyze and design of helical Antennas, and Yagi antennas
2				2			2		1	1			7	Analyze transmission lines and wave guides in general
2		2		2			2	1	1	1			8	Analyze and design rectangular and cylindrical waveguides for practical applications
2		2		2			2		1	1			9	Understand and design microwave resonators
2				2			2			2			10	Analyze networks in terms of Scattering parameters at microwave frequencies
2				2			2	1	2				11	Understand the general mechanisms of wave propagation
2				2			2		2				12	Analyze ground wave propagation
2				2			2		2				13	Analyze tropospheric propagation
2				2			2		2				14	Analyze Ionospheric propagation
2	2	2		2			2	1	2				15	Analyze and design microstrip antennas

1=supporting contribution
2=significant contribution

	a. an ability to apply knowledge of mathematics, science, and engineering
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	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,
	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
	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