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

ABET Outcomes											Rubric or	Example	Outcome	EET 430 Computer Networking I (4) – Outcomes Reviewed 2013
A	B	C	D	E	F	G	H	I	J	K	student %	problem	#	
1	1					2							1	Explain the differences and wiring of thick, thin, 10baseT, 100baseT, and Gigabit Ethernet.
1	1					2							2	Explain the layered approach of the OSI model.
1	1												3	Compare the TCP/IP model to the OSI model.
1	1					2							4	Explain IP addressing schemes.
1	1					2							5	Explain various protocols including IP, TCP, UDP and other concpets including ARP, RARP, ICMP, multicasting and IGMP.
1	1					2							6	Explain Routing protocols such as RIP, OSPF, and BGP.
1	1					2							7	Explain the Application Layer and the client server model, including sockets.
1	1					2							8	Explain the Dynamic Host Configuration Protocol and the Domain Name System.
1	1					2							9	Compare the differences between IP versions 4 and 6.
						2							10	Explain how software and hardware firewalls work, and compare them.
1	1	2											11	Use a protocol analyzer (such as Ethereal) to view the data and headers from the various protocols and applications in the Ethernet frame.
1	1	2											12	Use a route tracer to see how servers are used to form connections over the Internet.
1	1	2	2		2								13	Create a small LAN and view how the network capacities and efficiencies improve as the network upgrades from hubs to switched Ethernet and multiple servers.
1	1	2	2		2								14	Demonstrate how to wire and connect Cat 5 wiring with RJ 45 receptacles, using 568A and 568B wiring schemes, to create straight through , crossover cables and connections to patch panels.
1	1	2	2		2								15	Demonstrate how to setup and install an LAN (Ethernet) in both a Windows and a Linux environment.
1	1	2	2		2								16	Set up an e-mail server, web server and FTP server and analyze how they operate.

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.	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.