9/5/13	DATE	Technology	DIVISION
X	REQUIRED COURSE		NEW COURSE
Х	ELECTIVE COURSE	Х	REVISION

LAKE LAND COLLEGE Course Information Form

COURSE NUMBER	EET066 TITLE	Network Pr	ro		
SEM CR HRS	LT HRS	4 LAB HRS	0 SOE HRS	6 <u>0</u> ECH 4	
COURSE PCS#	_		(Assi	gned by Administratior	1)
Prerequisites:	EET060 and CIS0	81 or permissi	on of instructor		
Catalog Description	on (40 Word Limit):				
and Electronics Ted	chnicians Associatio	n CNST exam.	Topics include an in	ustry Association Net+ -depth look at data ontrol and data security	
List the Major Cour	se Segments (Units)	Lt Hrs	Lab Hrs	
DataComm Fundan Data Transmission Basic telephony Modems LAN Network Managemo Error control and da Satellite Communic	ent and Trouble sho ata security	ooting	5 5 10 10 15 5 5		
EVALUATION:		Exams X Projects		Papers Other	
Textbook:	Title: Author: Publisher: Volume/Edition: Copyright Date:	NETWORK+ Tamara Dear Course Tech 6th 2013		≀KS	

Major Course Segment	Hours	Learning Outcomes Student will be able to
DataComm Fundamentals	5	Define the terms; Protocols, network topology, DTE and DCE, Modems, Baud and Bit Rates, modulation methods, and terminal codes.
Data Transmission	5	Describe the basic waveform types and transmission media, basic electrical properties of cable, types of encoding, error control, and data conversion methods.
Basic Telephony	10	Identify the purpose and describe the theory of pulse and tone dialing, local exchange loops, BORSCHT functions, public inter connect, pulse modulation, voice channel characteristics, multiplexing, T carriers, and SONET.
Modems	10	Differentiate between different modulation types, understand the HAYES AT command set, V series to include V.90, loop back test, and modem chipset functions. Students will be able to correctly install and configure a modem.
LAN	15	Describe of LAN types, OSI model, protocols, IEEE 802 LAN standards. NIC testing and troubleshooting, TCP/IP, ARP, RDL, DHCP,WINS,PPP,PPTP, packet switching, and ISDN.
Network Management and Troubleshooting	5	Identify components unique to configuration management, performance management, and fault management. Student will understand several different approaches to troubleshooting and test equipment used.
Error Control and Data Security	5	Describe basic data communication error control methods, such as parity, LRC, and CRC. Student will understand the basics of data encryption.
Satellite Communications	5	Identify satellite applications, frequencies, orbits, and multiplexing techniques.

Course Outcomes: At the successful completion of this course, students will be able to:

- Describe the purpose of the OSI model and each of its layers.
- Explain how the TCP/IP protocols correlate to layers of the OSI model.
- Describe the basic and hybrid LAN physical topologies.
- Explain the purposes and properties of routing.
- Describe characteristics common to all Network Operating Systems.