UNIVERSITY OF PENNSYLVANIA
TELECOMMUNICATIONS & NETWORKING PROGRAM

Student Name: **Student Email:** @seas.upenn.edu

DEGREE REQUIREMENT CHECKLIST – A total of ten (10) courses must be selected from the following categories:

I. TELECOMMUNICATIONS CORE COURSES

One of the following basic courses in Probability:

Term	*Course Number*	*Course Title*
_____	ENM 503	Introduction to Probability and Statistics
_____	ESE 530	Elements of Probability Theory and Random Processes *may be substituted with instructor permission. For advanced students only.*

The following two Basic TCOM courses:

Term	*Course Number*	*Course Title*
_____	TCOM 500	Introduction to Networks and Protocols
_____	TCOM 502	Advanced Networking Protocols

II. TECHNICAL ELECTIVE (students must select 1 course unit)

One graduate Telecommunications, Electrical & Systems Emgineering, or Computer & Information Science course, with advisor approval:

Term	*Course Number*	*Course Title*
_____	TCOM/ESE/CIS	

II. TELECOMMUNICATIONS ELECTIVES (students must select 3 course units)

Any three (3) other TCOM courses offered, including "core" courses not taken to fulfill student's core requirement.

Term	*Course Number*	*Course Title*
_____	TCOM 501	Networking - Theory and Fundamentals
_____	TCOM 503	Waves, Fibers and Antennas for Communication Systems (ESE 509)
_____	TCOM 510	Wireless Networking
_____	TCOM 511	Wireless Systems (ESE 575)
_____	TCOM 512	Application and Transport Protocols
	TCOM 515	Optical Networking
_____	TCOM 551	Computer and Network Security (CIS551)
_____	TCOM 601	Advanced Network, Design and Analysis
_____	TCOM 670	Seminar in Telecommunications
_____	TCOM 799	Special Topics
_____	TCOM 899	Independent Study
_____	TCOM 999	Master's Thesis (up to two terms)
_____	TCOM 999	Master's Thesis

III. FREE ELECTIVES (Student must take at least 3, advisor approval required)

Graduate courses in TCOM, ESE, CIS, ENM, Wharton; up to one CIT graduate course may be taken.

Term	*Course Number*	*Course Title*
_____	_____	
_____	_____	
_____	_____	
_____	_____	
_____	_____	
_____	_____	

ADVISOR APPROVAL

All students are required to obtain advisor approval for every term. As of Fall 2003, full-time students must register for TCOM 596- Seminar Series and attend a minimum of four (4) seminars.

Term	**TCOM 596**	**Advisor's Signature**	**Date**
_____	□ or P/T	_____	_____
_____	□ or P/T	_____	_____
_____	□ or P/T	_____	_____
_____	□ or P/T	_____	_____
_____	□ or P/T	_____	_____
_____	□ or P/T	_____	_____