

**Telecommunications Installation and Maintenance
 Credential: Diploma in Telecommunications Installation
 and Maintenance
 D5038000**

The Telecommunications Installation and Maintenance curriculum prepares individuals for jobs in the telecommunications industry. It provides fundamental training for new students and provides upgrade training for current employees of telecommunications companies. Course work includes basic electricity, cable splicing, fiber optics, LAN-copper, cable fault location and repair, central office administration and other related topics. Emphasis is placed on hands-on installation and maintenance training. A graduate should be prepared to work in the telecommunications industry in outside plant operations, on central office equipment, and on business communication equipment.

Entrance Standards: See General Admission Standards on page 7 (Gen. Info section).

Academic Standards: See General Academic Standards on page 19 (Gen. Info section).

Program Length: 3 semesters

Career Pathway Options: Diploma in Telecommunications Installation and Maintenance

Program Sites:

N. C. School of Telecommunications and Lee Campus - Day

Course Requirements for Telecommunications Installation and Maintenance Diploma

A. General Education Courses (6 SHC)		C-L-SHC
ENG 102	Applied Communications II	3-0-3
PSY 101	Applied Psychology	3-0-3

B. Required Major Core Courses (16 SHC)		
TEL 100	Telecom. Basic Electricity	3-0-3
TEL 105	Fiber Optic Splicing	1-2-2
TEL 106	Fiber Optic Connectors	1-2-2
TEL 108	Comdial Key Systems	0-2-1
TEL 200	LAN: Copper	0-2-1
OR		
TEL 206	Installer Level 1 Cabling	1-2-2
TEL 201	Station Install & Repair	1-2-2
TEL 202	Cable Splicing	1-2-2
TEL 203	Cable Fault Location	0-2-1
TEL 205	Digital Cent. Of. Admin.	1-2-2

C. Other Major Hours Required for Graduation (18 SHC)		
BUS	Business Elective	3
CIS 111	Basic PC Literacy	1-2-2
MAT 101	Applied Mathematics I	2-2-3
TEL 209	ADSL Installation	0-2-1
	Major Electives	9

Business Electives (Choose one course)		
BUS 110	Introduction to Business	3-0-3
BUS 125	Personal Finance	3-0-3
BUS 137	Principles of Management	3-0-3
BUS 151	People Skills	3-0-3
BUS 152	Human Relations	3-0-3
BUS 230	Small Business Management	3-0-3
BUS 255	Org Behavior in Business	3-0-3
BUS 270	Professional Development	3-0-3
BUS 280	REAL Small Business	4-0-4

Major Elective Course Listing - Select a minimum of 9 SHC from one of the following groups:

(Telecommunications Group)		
ELC 144	OTDR Operation	1-0-1
NET 113	Home Automation Systems	2-2-3
TEL 101	Conductor Connections	0-2-1
TEL 102	Pole Climbing	0-2-1
TEL 104	CATV Installation & Repair: Distribution	0-2-1
TEL 109	T-1 Span Line Mtnce	0-2-1
TEL 204	Transmission Fundamentals	2-0-2
TEL 207	Installer Level 2 Cabling	1-2-2
TEL 208	Technician Level Cabling	1-2-2

OR

(Small Home/Small Office Networking Group)		
NET 113	Home Automation Systems	2-2-3
NET 125	Networking Basics	1-4-3
NET 126	Routing Basics	1-4-3
NET 175	Wireless Technologies	2-2-3

OR

(Networking Infrastructure Group)		
NET 125	Networking Basics	1-4-3
NET 126	Routing Basics	1-4-3
NET 225	Routing & Switching	1-4-3

Total Semester Hours Credit Required for Graduation: 40

Semester Curriculum for Telecommunications Installation and Maintenance Diploma

1st Semester (Fall)		C-L-SHC
TEL 100	Telecom. Basic Electricity	3-0-3
TEL 105	Fiber Optic Splicing	1-2-2
TEL 106	Fiber Optic Connectors	1-2-2
TEL 108	Comdial Key Systems	0-2-1
TEL 200	LAN: Copper	0-2-1

	OR	
TEL 206	Installer Level 1 Cabling	1-2-2
TEL 201	Station Install/Repair	1-2-2
TEL 202	Cable Splicing	1-2-2
TEL 203	Cable Fault Location	0-2-1
TEL 205	Digital Cent. Of. Admin.	1-2-2
TEL 209	ADSL Installation	0-2-1
	8-18-17	
2nd Semester (Spring)		
BUS	Business Elective	3
CIS 111	Basic PC Literacy	1-2-2
ENG 102	Applied Communications II	3-0-3
PSY 101	Applied Psychology	3-0-3
MAT 101	Applied Math I	2-2-3
	Major Elective	3
	12-4-17	
3rd Semester (Summer)		
	Major Elective	6
Total Semester Hours Credit: 40		