Empire College
Business – Law – Technology – Medical

CLASS NUMBER AND NAME: **CSN175A – WIRING HARDWARE**

TOTAL HOURS/ UNITS: 24 HOURS/2.0 UNITS

PREREQUISITES: none

TEXTS AND MATERIALS: LAN Wiring, *Mcgraw-Hill Education; McGraw-Hill 2014* (ISBN 9781308273693)

CLASS DESCRIPTION: A combination of lecture and hands-on training in building telecommunications wiring systems. Creation and termination of copper and fiber optic cables.

CLASS OBJECTIVES: To provide the student with a fundamental knowledge of the six subsystems of a structured cabling system, media connecting hardware and performance specifications.

CLASS FORMAT OVERVIEW: This class is a combination of lecture and lab.

Time spent in preparation for or reflection on course lecture will approximate two hours outside of class for each lecture credit hour utilized by the instructor in delivery of the material and ¼ hour outside of class for each hour of structured lab time.

METHODS OF INSTRUCTION: As lecture and lab are the principal means of instruction, it will be expected that all students will be present every day to take part in class.

A mandatory project that will consist of designing a wiring layout for an office building. The student can utilize the **eLibrary** provided by the college as well as other outside sources. Username and passwords to the **eLibrary** will be given during the course.

ATTENDANCE: It is expected that each student will be in class <u>when class begins.</u> Should the student arrive more than <u>ten minutes late</u> they should notify the instructor of their presence, it will be up to the instructor to decide if the student has arrived in time to be counted as present- the instructor's decision is final.

<u>80% attendance is mandatory</u>

It will be the student's responsibility to learn of any assignments given in class when absent.

TESTING: Quizzes will be given throughout the mod as well as a cumulative final exam. All quizzes, examinations, exercises and homework must be satisfactorily completed with a passing grade of 60% or better in

order to pass the course.

LATE TESTING: **Late testing is only allowed at the instructor's discretion.**

GRADING POLICIES: The grading system is comprised of attendance, assignments, weekly tests and an end-of-module final and will be graded on the following scale:

Homework, tests and final	Maximum Possible
Attendance	10%
Homework	30%
Weekly Exams	40%
Hands on Final	20%
Module total	100%

Combined grades from attendance, assignments, weekly tests and end-of-module final will be graded on the following scale:

(90 – 100%) = A
(80 – 89%) = B
(70 – 79%) = C
(60 – 69%) = D
less than 60% = F

ANTICIPATED LEARNING OUTCOMES: Upon completing this course, the student will have an understanding of:

1.The standards of compliance for EIA/TIA 568 A and B
2.Performance categories and how to utilize them.
3.Subsystems Definitions
4.Connector variations
5.Cabling documentation and terms
6.Creation and termination of Copper and Fiber optic media
7.Researching the latest wiring technologies using the electronic database, E-Library.

Earned a passing grade in the course by earning a D or higher

Wiring Hardware – CSN175A
Tentative schedule

Week 1
Chapter 1
Test, homework due

Week 2
Chapters 3, 5, 6
Test, homework due

Week 3
Chapters 7,8
Test, homework due

Week 4
Chapters 13 ,15
Test. homework due

Week 5
Chapter 11
Test. homework due

Week 6
Final Wiring Project Due
Final Exam