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| CLASS NUMBER AND NAME: | CS175A – WIRING HARDWARE |
| TOTAL HOURS/ UNITS: | 25 HOURS/1.5 UNITS |
| PREREQUISITES: | none |
| TEXTS AND MATERIALS: | LAN Wiring, <i>James Truelove; McGraw-Hill 2006</i> |
| 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 as it applies to the Electronics Industry Association (EIA) / Telecommunications Industry Association (TIA) standards 568. |
| CLASS FORMAT OVERVIEW: | This class is a combination of lecture and lab. |
| 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. |
| ATTENDANCE: | <p>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.</p> <p><u>80% attendance is mandatory</u></p> <p>It will be the student's responsibility to learn of any assignments given in class when absent.</p> |
| TESTING: | <p>Four 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.</p> <p>A quiz or test may be retaken if the score is 69% or below. The highest grade for retakes will be a low C.</p> |
| LATE TESTING: | <u>Late testing is only allowed at the instructor's discretion.</u> |

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 | 15% |
| Homework | 25% |
| Weekly Exams | 40% |
| <u>Hands on Final</u> | <u>20%</u> |
| 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%) = BCS175A Wiring Hardware

Tentative schedule

Instructor: Scott Wilcox

Email: swilcox@empirecollege.com

Week 1

Chapters: 1 - Designing LAN Wiring Systems

Friday- Test, Homework due

Week 2

Chapter: 3 - Structured Cabling Systems

5 - Wire and Cable Technology for LANSs

6 - (Review only) – Work Area Outlets

Friday- Test, Homework due

Week 3

Chapter: 7 - Telecommunication Room Terminations

8 - Patch Panels, Cross Connects, and Patch Cords

Friday- Test, Homework due

Week 4

Chapter: 15 - Testing and Certifying LAN Wiring
17 - (Review only) – Troubleshooting LAN Wiring

Friday- Test, Homework due

Week 5

Chapter: 11 - Fiber-Optic Techniques

Friday- Final Test, Homework due

Home Work:

All Home work must be typed.

Create 7 original questions of your own choosing, per chapter, per week, with answers.

One word answers will not be accepted.

Include the page number of the chapter, from which you created the question.

Include your:

Name

Date

Chapter Number

Course Number, at the top of the page.

Copied or reverse engineered questions will not be accepted.

(70 – 79%) = C

(60 – 69%) = D

less than 60% = F

**ANTICIPATED LEARNING
OUTCOMES:**

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

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