Course Prefix and Number: CIT 211  
Credit Hours: 3-3-0

Course Title: Data Storage

Course Prerequisite: CIT 170 and CIT 172

Textbook(s): None

Course Description: This course provides the student an introduction to the concepts, terms, technologies, and role of today’s storage industry to meet business requirements. The course examines the major components of a storage system, common storage architectures, and the various means of connecting storage elements. Learners are presented Hitachi Data Systems hardware and software products as practical illustrations of the concepts taught with emphasis on basic administration and operation of the Hitachi Adaptable Modular Storage product.

Learning Outcomes:
At the end of this course, the student will:

A. recognize the current data storage industry and concepts;
B. recognize current business requirements for data storage solutions;
C. identify the major components of data storage systems;
D. compare Network Attached Storage (NAS) and Storage Area Network (SAN); and
E. practice basic storage administration and operation.

To achieve the learning outcomes, the student will or will be able to:
(The letter designations at the end of each statement refer to the learning outcome(s).)

1. explain the need for data storage solutions to meet business requirements (B);
2. define industry terms relative to storage technology (A);
3. identify current industry storage concepts (A);
4. differentiate common storage architectures (C, D);
5. identify the major components of a storage system (C);
6. compare the various means of connecting storage elements (D);
7. differentiate NAS and SAN implementations (D);
8. examine the hardware components and architectures of the Hitachi Adaptable Modular Storage product as a real example of a data storage system (C, D, E);
9. recognize the purpose and operation of storage management software (E);
10. create storage volumes (E);
11. allocate storage volumes to servers (E); and
12. recognize the purpose and setup of server-to-storage system port security (E).

Course Requirements:

1. A student must successfully complete the course with an average of 70% or above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).

**Course Grading Scale:**
- 90 – 100 = A
- 80 – 89 = B
- 70 – 79 = C
- 60 – 69 = D
- 0 – 59 = F

**Attendance Policy:** The college attendance policy is available at http://www.bpcc.edu/catalog/current/academicpolicies.html

**Course Fees:** This course is accompanied with an additional fee for supplemental materials.

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