## CIS 51.12 Course Outline as of Spring 2009

#### **CATALOG INFORMATION**

Dept and Nbr: CIS 51.12 Title: WINDOWS COMMAND LINE

Full Title: Windows Command Line/Microsoft DOS

Last Reviewed: 9/29/2008

Units		Course Hours per Week		Nbr of Weeks	<b>Course Hours Total</b>	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	8	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00 Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

#### **Catalog Description:**

This course will provide the student with a detailed understanding of the workings of Microsoft Command Line and the DOS environment using the Windows command shell. The material in this course will form a foundation of knowledge that can be expanded on by further study and experience with the UNIX/LINUX, Microsoft Windows and Cisco operating systems. The skills and knowledge gained from this class form a crucial foundation for aspiring IT professionals and anyone interested in furthering their computer networking or Information Communications Technology career.

# **Prerequisites/Corequisites:**

Course Completion of CS 80.11 (or CIS 50.91 or CIS 84.95)

#### **Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

#### **Limits on Enrollment:**

# **Schedule of Classes Information:**

Description: This course will provide the student with a detailed understanding of the workings of Microsoft Command Line and the DOS environment using the Windows command shell. The

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Prerequisites/Corequisites: Course Completion of CS 80.11 (or CIS 50.91 or CIS 84.95)

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment: Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

# **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

AS Degree: Area Effective: Inactive: CSU GE: Transfer Area Effective: Inactive:

**IGETC:** Transfer Area Effective: Inactive:

**CSU Transfer:** Transferable Effective: Spring 2009 Inactive: Fall 2015

**UC Transfer:** Effective: Inactive:

CID:

### Certificate/Major Applicable:

Not Certificate/Major Applicable

### **COURSE CONTENT**

### **Outcomes and Objectives:**

Upon completion of this course, students will be able to:

- 1. Explain the purpose, nature and operation of the Disk Operating System (DOS).
- 2. Describe the purpose and procedure for using DOS file and disk commands within the command line shell.
- 3. Summarize the processes of formatting diskettes and drives.
- 4. Differentiate between internal and external DOS commands.
- 5. Differentiate between program files, data files and subdirectories.
- 6. Design and implement a consistent file, directory and disk management strategy.
- 7. Describe the elements in the Registry file structure and differentiate between various methods of editing the Registry.
- 8. Validate protective operating system practices.
- 9. Validate batch files in an interactive processing environment.
- 10. Summarize the methods of managing the boot process, memory and system configuration.
- 11. Experiment with a basic peer-to-peer network with drive, folder and printer sharing.

# **Topics and Scope:**

- I. Microcomputer Systems
  - A. Hardware
  - B. Software
  - C. Operating System

- II. Command Syntax DIR command with parameters and wildcards
- III. Disk and Formatting
  - A. Structure of a disk
  - B. High-density disks and disk drives
  - C. Function and purpose of formatting a disk
  - D. Formatting a disk
  - E. Bootable and nonbootable disks
  - F. Creating a bootable disk
- IV. Files and Directories
  - A. Program files
  - B. Data files
  - C. Subdirectories
- V. Commands
  - A. Internal commands
  - B. External commands
- VI. Command Editors MS-DOS Text Editor
- VII. Hard Disk Management structure and organization
- VIII.Advanced Commands
  - A. Pipes
  - B. Filters
  - C. Redirection
- IX. Batch Files
  - A. Simple
  - B. Complex
- X. Basic System Functions
  - A. Memory
  - B. Boot Process
  - C. System Configuration
- XI. System Protection
  - A. Back-ups
  - B. Registry settings
- XII. Networking Connectivity
  - A. Local Area Networks (LANs) and Wide Area Networks (WANs)
  - B. Peer-to-peer networking
  - C. Sharing resources
  - D. Drive mapping
  - E. TCP/IP (transmission control protocol/Internet protocol)overview
  - F. TCP/IP utilities interface with the Internet

#### **Assignment:**

Reading assignments may include:

- 1. Online research of scripting examples and implementation practices
- 2. Approximately 40 pages weekly from the textbook

Homework problems may include

- 1. Hands-on exercises to demonstrate proficiency with each topic
- 2. Online quizzes
- 3. Creation of scripts

Other assignments may include:

1. Objective examinations and quizzes

- 2. Skill demonstration examinations
- 3. Classroom scenario based exercises

#### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing 0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems

Problem solving 15 - 30%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performance exam and effective script writing

Skill Demonstrations 20 - 30%

**Exams:** All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion, Exams

Exams 20 - 30%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation in scenario based exercises

Other Category 10 - 25%

#### **Representative Textbooks and Materials:**

Windows XP: Command Line. Gillay, Carolyn Z. Franklin Beedle & Associates: 2005