

COURSE OUTLINE OF RECORD

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| Dept., Number | CSC 2160 | Course Title | UNIX Lab |
| Semester Hours | 1 | | |
| Year | 2006 | URL (if any): | |

Current Catalog Description:

This course covers UNIX operating system commands, the use of directories, files, text manipulation, and user-to-user communication. Prerequisite: CSC 1311

Textbook:

"Harley Hahn's Student Guide to UNIX, 1996; by Harley Hahn, McGraw-Hill.

Course Goal:

To show students how to gain access to the UNIX system and become familiar with the hierarchical file system, file management concepts, communication facilities, text utilities and the system shell.

Prerequisites by Topic: Computer Programming Concepts

Major Topics Covered in the Course (number of weeks):

- Unit 1 - Introduction, History and Getting Started on UNIX (2)
- Unit 2 - UNIX Shell and Basic Commands(2)
- Unit 3 - User Communication and Networks (3)
- Unit 4 - File Manipulation and Editors (3)
- Unit 5 - UNIX File System (2)
- Unit 6 - Processes and Job Control (1)

Laboratory Projects:

Four lab projects (One week for each assignment)

Estimate Curriculum Category Content (Semester hours)

| Area | Core | Advanced | Area | Core | Advanced |
|-----------------|------|----------|-----------------|------|----------|
| Algorithms | | | Data Structures | | |
| Software Design | | | Prog. Languages | 1 | |
| Comp. Arch. | | | | | |

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Social and Ethical Issues:

Students are required to read at least two different articles for class review and discussion. Open class discussion is led by instructor, and all students are required to give input.

Theoretical Content:

Multi-user and multi-tasking operating systems hardware and connection methods. Command syntax and parameters. Re-direction, pipe, and filter concepts. File system structure including directories, subdirectories, and pathnames. Foreground and background process concepts.

Problem Analysis:

Students are asked to analyze the features of the operating system with other systems (e.g. e-mail programs, text editors, and file systems).