

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: CSIS 225 UNIX Operating System

UNIT VALUE: 2

MINIMUM NUMBER OF SEMESTER HOURS: 64

BASIC SKILLS REQUIREMENTS: Appropriate Language and Computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

A hands-on introduction to a computer operating system including operating system terminology, E-mail user utilities, file structure, file security, and an introduction to shell programming using the Bourne shell.

SPECIFIC COURSE OBJECTIVES: The successful student will be able to:

1. Function with entry level technical skills in a UNIX-based operating system environment on a time-shared multi-programming computer system.
2. Perform fundamental computer operations efficiently in a UNIX operating system environment.
3. Understand and describe a computer system in operation in a regular production shop environment.
4. Demonstrate knowledge of UNIX-based editors.
5. Demonstrate knowledge of UNIX-based commands and utilities.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. UNIX Operating System Overview
 - A. UNIX conventions
 - B. Logging in
 - C. Logging out
 - D. Introduction to man pages
 - E. Passwords

- F. Special Characters
- II. Standard UNIX editors
 - A. vi (Visual Editor)
 - B. joe
 - C. pico and pine
- III. UNIX Filesystem and File Security
 - A. File/Directory Access and Permissions
 - B. Group/Owner Access and Permissions
 - C. Startup Files
 - D. Links
- II. Introduction to Utilities
 - A. File Operations
 - B. System Status Commands
 - C. Directory Commands
 - D. File Commands
 - E. File Manipulation Commands
 - F. Device Commands
- III. Shell Programming Concepts/Applications
 - A. Environment and Definition
 - B. Parameters and Variables
 - 1. Positional Parameters
 - 2. Variable Assignment/Substitution
 - C. Conditional Processing
 - D. Executing/Debugging Shell Script
- IV. UNIX User Communications
 - A. Write, Mail and Mailx

REQUIRED READING:

Sobell, Mark G. A Practical Guide to LINUX. Upper Saddle River, NJ: Addison Wesley, 1997.

SUGGESTED READING: None

REQUIRED WRITING:

Students will be required to submit six (two page) written problem solving laboratory assignments involving hands-on UNIX exercises.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Students are required to read the text and study lecture/lab notes. They are also required to complete five shell programming assignments.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

5 Quizzes	40%
6 Laboratory Assignments.....	30%
Final Exam.....	25%
Homework Assignment from text.....	5%
Total.....	100%

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: _____

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

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SIGNATURES ON FILE