CATALOG DESCRIPTION:
This course provides an introduction to O/S and Networking Support. Topics include user engineering, risk management, mission assurance, software process management, enterprise management tools and processes, disaster recovery, business continuity and information life cycle management. (Federal Government guidance/regulations effecting Operating Systems and Network Support)

PRE-REQUISITE:  CSC 116

TEXTBOOKS:
Introduction to the New Mainframe: z/OS Basics
Introduction to the New Mainframe: Networking
TCP/IP Tutorial and Technical Overview, December 2006, GG24-3376-07 (Wireless)

OPTIONAL READING: IBM
Redbooks ABCs of z/OS System Programming Series

REFERENCE:  For Rainbow Series reports see
http://en.wikipedia.org/wiki/Rainbow_Series

For Federal Information Processing Standards see
For The Committee on National Systems Security see
http://www.cnss.gov/

COURSE GOALS:
- Understanding the importance of Network Systems
- Learn about different component of the Network and Operating systems
- Learn about Wireless networks
- Learn about Network cabling, testing, and troubleshooting.
- Implementation and presentation of a Network related Project
- (Learn about Past and emerging Federal Government guidance/regulations impacting Operating Systems and Network Support)

COURSE OUTCOMES:
Upon completing this course students will demonstrate
- a good understanding of computer network and its components
- how to operate the command level and troubleshoot the Unix Operating System
- an understanding of wireless network, Wi-Fi and Fiber Optics
- how to do network cabling and testing of network connectivity
- (Awareness of additional guidance available from Federal Government resources which can help in Operating Systems and Network Support)

ATTENDANCE POLICY
California State University, Dominguez Hills requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student’s course grade being reduced or in assignment of a grade of “F”. Absences are accumulated beginning with the first day of class.

Very Important Note: Attendance is expected and required. The student is responsible for materials missed during an absence, whether excused or not. Excessive absences or tardiness will result in lowered grades. A sign-in sheet will be put in the class room entrance. YOU MUST CHECK-IN EACH CLASS.

STUDENT ACADEMIC APPEALS PROCESS
Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, error, or unfairness of any kind may have adversely affected the instructor’s assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

ADA STATEMENT
Students with disabilities, who believe they may need an academic adjustment in this class, are encouraged to contact the Disabled Student Services office at (310-243-2028) as soon as possible to better ensure receipt of timely adjustments. Once you receive a
letter from the office for Disability Service, kindly make an appointment to discuss appropriate academic adjustments for this class.

ACADEMIC INTEGRITY

Academic integrity is of central importance in this and every other course at CSUDH. You are obliged to consult the appropriate sections of the University Catalog and obey all rules and regulations imposed by the University relevant to its lawful missions, processes, and functions. All work turned in by a student for a grade must be the students’ own work. Plagiarism and cheating (e.g. stealing or copying the work of others and turning it in as your own) will not be tolerated, and will be dealt with according to University policy. The consequences for being caught plagiarizing or cheating range from a minimum of a zero grade for the work you plagiarized or cheated on, to being dropped from the course.

COURSE POLICIES:

This course uses the lecture format. Reading, projects and homework assignments will be made, and all problems will be graded. It is expected that you will need to spend at least one hour studying outside the class for each hour spent in the class. That means you should plan to devote a minimum of six (6) hours per week for this class (3-hours in class, 3-hours outside class). Note taking is very important in this course and students are asked to keep an organized notebook. A notebook will help you to organize your work for easy access when preparing for tests.

HOMEWORK ASSIGNMENTS

Please be aware for all the homework assignments to be handed to the instructor in person and in class. The computer-print out homework is preferable, but handwriting is also acceptable. However, it is the students’ responsibility to make your writing clear enough for the instructor to grade. Do not slide any homework under the office door.

PROJECT ASSIGNMENTS

The standards for submission of projects will be made available per project assignment. Each project should be presentable and submitted with a cover sheet. Reports should include name of the student, section number, instructor, and class meeting time.

Homework and projects will be handed out ONE week before the due day.

LATE HOMEWORK/PROJECTS:

All assignments are due near the end of class on the scheduled dates. NO LATE ASSIGNMENT WILL BE ACCEPTED.

MID-TERM TEST/MISSED TEST:

Two midterm tests will be given. The test material that does not appear in the textbooks will be presented in lectures. Students are responsible for the additional materials that will be presented in the class. Missed midterm tests may not be made up unless the students are supported by documentations acknowledged by the university for an excuse.
GRADING

<table>
<thead>
<tr>
<th>Course Grade</th>
<th>Approximate % of Grade</th>
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<tbody>
<tr>
<td>Announced examinations (3)</td>
<td>63</td>
</tr>
<tr>
<td>Unannounced quizzes (2)</td>
<td>6</td>
</tr>
<tr>
<td>Homework and Laboratory exercises</td>
<td>31</td>
</tr>
<tr>
<td>Extra credit</td>
<td>5</td>
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</tbody>
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GRADING SCALE:

- 96-100 = A
- 90-95 = A-
- 87-89 = B+
- 83-86 = B
- 80-82 = B-
- 77-79 = C+
- 73-76 = C
- 70-72 = C-
- 67-69 = D+
- 63-66 = D
- below 60 = F

Laboratory Policy
Although the laboratory assignments comprise approximately 40% of a grade, a student can receive a final grade no greater than a D if more than three laboratory assignments are not handed in. Laboratory assignments receiving less than a 50% score are considered not turned in.

LECTURE, LABORATORY, AND EXAMINATION SCHEDULE

You are expected to read each assigned project prior to the lecture. Lectures will be short, to the point, and will discuss the highlights of the project for that week. Most of the class time will be spent working on your Laboratory assignments.

Weekly Laboratory assignments can only be handed in immediately BEFORE lecture begins the following week. Laboratory assignments handed in after lecture begins the following week are considered late.

No assignments will be accepted more than two weeks late. Assignments handed in during the week after they are due are penalized 25%. Assignments handed in during the second week after they are due are penalized 50%. Plan to spend approximately six to eight hours each week working on laboratory assignments.

Make sure your name, student ID, and exercise number appear in the upper-left corner. If an exercise has multiple sheets, then staple them together. Do not staple different assignments together. Disorganized assignments (pages out of order, mislabeled, unreadable, etc.) will receive a grade of zero. If there are multiple sheets are to be handed in, sequence them according
to the order you were told to print them in the exercise. Some exercises are to be handed in on a floppy disk.

## COURSE OUTLINE

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Note</th>
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<tbody>
<tr>
<td>1</td>
<td>Intro to Network Concepts (Intro to Computer networks, components, and terminology)</td>
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<tr>
<td>2</td>
<td>Intro to Network Concepts (Intro to Computer networks, components, and terminology)</td>
<td></td>
</tr>
</tbody>
</table>
| 3    | Intro to Network Concepts (Intro to Computer networks, components, and terminology)  
( handout - List of Federal Government guidance and regulations effecting Operating Systems and Networks such as - CNSS Standards 4011, 4012 and 4013) |
| 4    | OSI Model (Understanding the transfer of Data from one computer across the internet to another computer) |
| 5    | OSI Model (Understanding the transfer of Data from one computer across the internet to another computer)  
Exam I |
| 6    | Unix Overview (Basic overview of Unix commands, troubleshooting utilities, and tools) |
| 7    | Unix Overview (Basic overview of Unix commands, troubleshooting utilities, and tools) |
| 8    | Unix Overview (Basic overview of Unix commands, troubleshooting utilities, and tools) |
| 9    | Networking Hardware Basics (Making / Testing CAT 5 Network Cabling and testing network connectivity) |
| 10   | Networking Hardware Basics (Making / Testing CAT 5 Network Cabling and testing network connectivity) |
| 11   | Troubleshooting Networks (Basic network Troubleshooting)  
EXAM II |
| 12   | Troubleshooting Networks (Basic network Troubleshooting) |
| 13   | Wireless Networks, Wi-Fi, Fiber optics |
| 14   | Hands On Component - Finish Term Project |
| 15   | Term Project Presentations |
| 16   | Final |