CS-3113

INTRODUCTION TO OPERATING SYSTEMS
(4:30 – 5:45 pm, M, W, #130 DEH)

Instructor: S.K. Dhall, #231DEH, TEL: 325-4042

Office Hrs: 3:00 – 4:20 pm MW

Teaching Assistant: Amlan Chatterjee (# 115 DEH)
Office Hours: 2:00 – 3:30 pm (Tuesday); and 3:00 – 4:30 pm (Thursday)


Recommended Text: Any good book on UNIX programming. Here is one:

Practical UNIX Programming by Kay A. Robbins and Steven Robbins – Prentice Hall.

Course Outline: Topics from Chapters 1-15 of text. Students are expected to read chapters 21-23

Course Objective: The main objective of the course is to gain understanding of the concepts in the design of Operating Systems. As a by-product we will achieve the following outcomes:
(a) An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
(b) An understanding of the issues in computer security.
(c) An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

Homework: Homework will consist of problems and programming assignments. All homework should be turned in at the start of the class on the due date. The homework must be typed. Late and/or illegible work will not be accepted. Homework will count for 30% towards the final grade.

Examinations: In addition to the FINAL EXAMINATION as scheduled according to the University Calendar, there will be two other examinations. The actual dates will be announced about a week before each exam. Each of these exams will count for 20% of your grade. The final exam will count for 30% of your grade. ALL EXAMS MUST BE TAKEN AS SCHEDULED. NO EXAM WILL BE GIVEN TO MAKE-UP THE MISSED ONES, EXCEPT IN CASE OF SICKNESS OR FAMILY EMERGENCY, DULY SUPPORTED BY DOCTOR'S CERTIFICATE. PROBLEMS WITH CAR OR ALARM CLOCKS WILL NOT BE CONSIDERED AS A VALID EXCUSE. PLEASE, DO NOT ASK FOR ANY MAKE-UP EXAM FOR FRIVOLOUS REASONS.
Grading: In order to get a passing grade in the course, a student must secure passing grades both in the homework and tests. Passing grade for each of these categories is 50% of the total marks. A student not securing a passing grade in either one of the two categories will be assigned a grade of F. The overall grade will be determined as follows:

- 90% or above – A
- 80% or above and below 90% - B
- 70% or above and below 80% - C
- 60% or above and below 70% - D
- Below 50% in either homework or in the tests or below 60% overall – F

Cooperation: A good way to learn the material is to explain it to someone else, so student-student discussion is encouraged. Student conversation is a valuable tool in suggesting different approaches to problem solution. However, since a grade must be assigned to each student that reflects the individual’s mastery of the subject, and not the communication talent, the work you turn in must be your own. COLLABORATION IS NOT ALLOWED, AND WHEN DISCOVERED, WILL BE REPORTED TO THE APPROPRIATE AUTHORITIES TO BE DEALT WITH ACCORDING TO THE UNIVERSITY REGULATIONS.

ANY STUDENT IN THIS COURSE WHO HAS A DISABILITY THAT MAY PREVENT HIM/HER FROM FULLY DEMONSTRATING HIS/HER ABILITIES SHOULD CONTACT ME PERSONALLY AS SOON AS POSSIBLE SO WE CAN DISCUSS ACCOMMODATIONS NECESSARY TO ENSURE FULL PARTICIPATION AND FACILITATE YOUR EDUCATIONAL OPPORTUNITIES.