University of North Texas at Dallas
Spring 2015
SYLLABUS

CSCE 3600D.090: Principles of Systems Programming 3Hrs

Department of	Mathematics & Information Sciences	**Division of**	Liberal Arts & Life Sciences

Instructor Name:	*Dr. Gerard Rambally*
Office Location:	*DAL2-229*
Office Phone:	*972-780-3093*
Email Address:	*gerard.rambally@unt.edu*
Office Hours:	Mon: 1:30 pm – 2:30 pm and 4:00 pm – 5:30 pm; Wed: 12:00pm – 2:30pm;
Virtual Office Hours:	
Classroom Location:	DAL2-338
Class Meeting Days & Times:	Mon: 5:30 – 8:20 pm
Course Catalog Description:	Introduction to the design and operation of systems software. Analysis is made of current system software technology, including operating systems, language translation systems and file systems.
Prerequisites:	CSCE 2100D or (CSCE 2050D and CSCE 2610D)
Co-requisites:	
Required Text:	Hoover, Adam. *System Programming with C and Unix*. Addison Wesley, 2010. ISBN: 0-13-606712-3
Recommended Text and References:	
Access to Learning Resources:	UNT Dallas Library: phone: (972) 338-1616; web: http://www.untdallas.edu/our-campus/library UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fheg.follett.com

Course Goals or Overview:

The goal of this course is to provide an introduction to system programming tools and resources, and to advance the programming skill of the student from the intermediate level to the advanced level.

Student Learning Outcomes: At the end of this course, the student will

1	Demonstrate an understanding of the fundamental concepts of system programming.
2	Demonstrate an understanding of lower-level data types: bits and bytes, bit operations, arrays, strings, structures, and pointers.
3	Demonstrate an understanding of a system library, and how it is used.
4	Demonstrate an understanding of a shell, a text editor, and a debugger, and how they are used during program development.
5	Demonstrate an understanding of system calls and their utilization.

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class.

TOPICS	TIMELINE
1. Introduction to System Programming, Tools and C	Week of 1/25/15
2. Bits, Bytes, and Data Types	Week of 2/1/15 and Week of 2/8/15
Exam 1	2/16/15
3. Arrays and Strings	Week of 2/22/15 and Week of 3/1/15
4. Pointers and Structures	Week of 3/8/15, Week of 3/22/15 and Week of 3/29/15
Exam 2	4/6/15
5. Input/Output	Week of 4/12/15
6. Program Management	Week of 4/19/15
7. Libraries	Week of 4/26/15
Exam 3	5/4/15

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Grading Matrix:

Instrument	Value (points or percentages)	Total
Assignments	Assignments will be given on each topic with variable weights. There will be a total of 7 assignments. These assignments will involve designing and writing computer programs in C to apply the concepts discussed in each topic.	25%
Exam 1	25%	25%
Exam 2	25%	25%
Exam 3	25%	25%
Total:		**100%**

Grade Determination:

A = 90% or better
B = 80 – 89 %
C = 70 – 79 %
D = 60 – 69 %
F = less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):
The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Any student requesting academic accommodations based on a disability is required to register with Disability Services each semester. A letter of verification for approved accommodations can be obtained from this office. Please be sure the letter is delivered to me as early in the semester as possible. Grades assigned before an accommodation is requested will not be changed as accommodations are not retroactive. Disability Services is located in the Student Life Office in DAL2, Suite 200 and is open 8:30a.m. – 5:00 p.m., Monday through Friday. The phone number is (972) 338-1775.

Student Evaluation of Teaching Effectiveness Policy:
The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

Assignment Policy:
All assignments are due in class on the due dates stated on the assignments. No late assignments will be accepted. All assignments are to be done individually unless stated otherwise on the assignment.

Exam Policy:
Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

Academic Integrity:
Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code.

Bad Weather Policy:
On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.unt.edu/dallas. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:
The University attendance policy is in effect for this course. Class attendance and participation is mandatory because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Successfully completing this class is a function of many factors. Two such factors are class attendance and assignment completion.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

Cell Phones:
Cell Phone use (or ringing) in class is strictly prohibited.