University of North Texas at Dallas Fall 2014 SYLLABUS

CSCE 3530D.030: Introduction to Computer Networks 3Hrs								
Department of Mathematics & Information Sciences Division of Liberal Arts & Life Sciences								
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Instructor Na	ame:	Dr. G	erard Rambally					
Office Locati	on:	DAL2	-229					
Office Phone	:	972-7	80-3093					
Email Address:		gerar	d.rambally@unt.edu					
Office Hours: By appointment or communicate with me by e-mail.								
Virtual Office Hours:								
Classroom L	ocation:	N/A						
Class Meetin	g Days & T		This is an online course except for the three times that you must be present on campus to take the three exams.					
Course Catal Description:	log	Introductio	n to data communications; asynchronous, synchronous, networks and current technology.					
Description:								
Prerequisites		CSCE 2610D - Assembly Language and Computer Organization or CSCE 3600D - Principles of Systems Programming						
Co-requisites		amming						
Co-requisites								
Required Tex	xt. Come	er Douglas	Computer Networks and Internets. Fifth Edition. Pearson. ISBN: 0-13-606127-3.					
Required rea		, Douglus.						
Recommende	ed Text							
and Reference	ces:							
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Access to Lea	arning Reso	urces:	UNT Dallas Library:					
			phone: (972) 338-1616;					
			web: http://www.untdallas.edu/our-campus/library					
			UNT Dallas Bookstore:					
			phone: (972) 780-3652;					
			e-mail: <u>1012mgr@fheg.follett.com</u>					
Course Goals	s or Overvi	ew:						
			ic question "how do computer networks and internets operate?" in the broadest sense. It					
	provides a comprehensive tour through all of networking that describes low-level details such as data transmission							
	and wiring, network technologies such as LANs and WANs, internetworking protocols, and applications. It shows							
	how protocols use the underlying hardware and how applications use the protocol stack to provide functionality for							
users.								
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Student Learning Outcomes: Upon successful completion of this course, the student will								
1 Demonstrate knowledge of a conceptual view of the role of computers in communications.								
	Demonstrate knowledge of communication protocols in the Internet.							
	Demonstrate knowledge of fundamental network programming.							
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	Demonstrate knowledge of different network architectures. Demonstrate knowledge of application protocols, and different routing and forwarding protocols.							
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Course Outline

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

TOPICS	TIMELINE
1. Introduction and Overview of Networks	Week of 8/25/14
2. Client-Server Interaction	
3. Internet Applications	Week of 9/1/14
4. Transmission Media	
5. Transmission Modes	Week of 9/8/14
6. Modulation and Modems	
7. Multiplexing and Demultiplexing	Week of 9/15/14
Exam 1	7:00 pm on 9/22/14 in Bld 2, Room 303 on
	the Dallas Campus
8. Access and Interconnection Technologies	Week of 9/29/14
9. Local Area Networks: Packets, Frames, Error Detection, and Topologies	
10. Wired LAN Technology	Week of 10/6/14
11. Wireless Networking Technologies	
12. Extending LANs	Week of 10/13/14
13. WAN Technologies and Dynamic Routing	
14. Internetworking: Concepts, Architecture and Protocols	Week of 10/20/14
Exam 2	7:00 pm on 10/27/14 in Bld 2, Room 303
	on the Dallas Campus
15. Internet Protocol Addresses	Week of 11/3/14
16. Datagram Forwarding	
17. Support Protocols	Week of 11/10/14
18. IPv6	
19. UDP: Datagram Transport Service	Week of 11/17/14
20. TCP: Reliable Transport Service	
21. Internet Routing	Week of 11/24/14
Exam 3	7:00 pm on 12/1/14 in Bld 2, Room 303 on
	the Dallas Campus

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 on each topic with variable weights	25%
Exam 1 (on campus)	25%	25%
Exam 2 (on campus)	25%	25%
Exam 3 (on campus)	25%	25%
Total:		100%

Grade Determination:

 $\begin{array}{l} A = \ 90\% \ or \ better \\ B = \ 80 - 89 \ \% \\ C = \ 70 - 79 \ \% \\ D = \ 60 - 69 \ \% \\ F = \ less \ than \ 60\% \end{array}$

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, except for documented emergencies. 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 <u>http://www.unt.edu/unt-</u> <u>dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academi</u> <u>c Integrity.pdf</u> for complete provisions of this code.

In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.

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 <u>www.unt.edu/dallas</u>. 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 <u>mandatory</u> 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.