



INFO 2601 Networking Technologies Fundamentals Semester 1 Course Information

Assistant Lecturer: Kris Manohar

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Lectures:

Day	Time
Monday	1:00 p.m. to 2:50 p.m.
Tuesday	3:00 p.m. to 3:50 p.m.

Tutor: Amit Ramkissoon

Email amit.ramkissoon@sta.uwi.edu

Tutorial:

Day	Time
Thursday	10:00 am to 11:50 am
Thursday	6:00 pm to 7:50 pm

EVALUATION

Coursework 50%
One (1) 2-Hour Written Examination 50%

COURSEWORK

3 Assignments

Assignment 1	Approx. 4%
Assignment 2	Approx. 7%
Assignment 3	Approx. 9%

2 Coursework Tests

Exam 1	Approx. 10%
Exam 2	Approx. 20%



ESSENTIAL TEXTS/ MATERIALS

Lecture slides

Computer Networking A Top-Down Approach (6th Edition) by James F. Kurose and Keith W. Ross. Publisher: Addison-Wesley, 2012.

Authoritative web sites for concepts discussed e.g. www.ietf.org

Additional Recommended Reading

Networking, A Beginner's Guide, Fifth Edition (Networking Professional's Library) by Bruce Hallberg. Publisher: McGraw-Hill Osborne, October 19, 2009

Computer Networks (5th Ed.) by A. Tanenbaum and D. Wetherall. Publisher: Prentice Hall, 2011.

Computer Networking First-Steps by Wendell Odom. Cisco Press, Paperback, Published April 2004, ISBN 1587201011. See www.bookpool.com

COURSE OVERVIEW

Computer networks are an indispensable component of any modern Information Technology infrastructure. This course introduces students to the world of computer networks. Principles and protocols for data communication are covered. Network architecture models are visited, and students get exposure to the practical aspects of networking such as setting up a basic network, router configuration, crimping of cables, etc...

Approach taken bridges two conceptual perspectives: theoretical and application-oriented study of computer networks and technologies.



COURSE CONTENT

Topic	Name	Outline	Lab
1	Introduction to Networks	Globally Connected LANs, WANs, and the Internet The Network as a Platform The Changing Network Environment	
2	Network Protocols and Communication	Rules of Communication Network Protocols and Standards Data Transfer in the Network	Crimping
3	Network Access	Physical Layer Protocols Network Media Data Link Layer Protocols Media Access Control	Working with Wireshark
4	Ethernet Protocol	Ethernet Protocol LAN Switches Address Resolution Protocol	FTP Client
5	Network Layer	Network Layer Protocols Routing Routers Configuring a Cisco Router	UDP using Wireshark
6	IP Addressing	IPv4 Network Addresses IPv6 Network Addresses Connectivity Verification	Router configuration
7	Subnetting IP Networks	Subnetting an IPv4 Network Addressing Schemes Address Schemes	MAC Address Filtering
8	Transport Layer Protocols	Transport Layer Protocols TCP and UDP	Subnetting
9	Application Layer Protocols	Application Layer Protocols Well-Known Application Protocols and Services	Revision
10	Build a Small Network	Network Design Network Security Basic Network Performance Network Troubleshooting	



TENTATIVE CW SCHEDULE

Wk	Date	Topics
1	14th Sept	
2	21st Sept	End of week 2: Assignment 1 (Due in 2 wks-@wk4)
3	28th Sept	
4	5th Oct	
5	12th Oct	End of week 5: Assignment 2 (Due in 2 wks-@wk7)
6	19th Oct	
7	26th Oct	
8	2nd Nov	Week 8: CWE1 End of week 8: Assignment 3 (Due in 2 wks-@wk10)
9	9th Nov	
10	16th Nov	
11	23rd Nov	Week 11: CWE2
12	30th Nov	Last week of classes. Revision and completion.

WHAT ARE THE RULES REGARDING PLAGIARISM AND CHEATING?

Plagiarism is the misrepresentation of someone else's work as your own. With the burgeoning amount of information available in print, on TV, and on the internet, the temptation to copy written, graphical or pictorial material into an assignment is very great. Yet this activity is morally and legally wrong. In lieu of formal disciplinary action, assignments containing plagiarized material will either be returned to the student with a mark of zero or returned for resubmission when rewritten in an original form satisfactory to the lecturer for marking, at the discretion of the lecturer. This does not preclude formal disciplinary action, which may include expulsion from the University. Students discovered cheating on an in-course test will normally receive a mark of zero for the test. Again, this does not preclude formal disciplinary action.

UWI Plagiarism Policy (*a Google Search will bring up this Policy*):

<https://sta.uwi.edu/fst/lifesciences/sites/default/files/lifesciences/images/plagiarism.pdf>

Individual Work Plagiarism Declaration Form (*a Google Search will bring up this Form*):

<https://sta.uwi.edu/fst/lifesciences/sites/default/files/lifesciences/images/Plagiarism%20Declaration%20Form.pdf>

Students **MUST** print and **FILL OUT** the Individual Work Plagiarism Declaration Form (link shown above) for **EACH** submitted assignment.