



Class Syllabus

CIS 123 Intro to Wide Area Networks

Winter 2008

John Kowalski

Tuesday, 6:15 – 10:00 p.m., AJT 206

Instructor:

John Kowalski

Office:

Room 110A A. J. Theisen Building

Phone:

To be given in class

Email:

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Contact Hours:

Tuesday 5:25 p.m. – 6:15 p.m.

Other Times by Prior Arrangement

Text:

TCP/IP Protocol Suite, Behrouz A. Forouzan

Description:

The world's largest network, the Internet, is also one of the world's most powerful communication tools. Learn the underlying applications, components and protocols of TCP/IP and its necessary link to the Internet. The *Introduction to TCP/IP* course will help participants learn how to identify TCP/IP layers, components and functions. Navigation tools, TCP/IP services and troubleshooting methodologies are also covered in this course.

Prerequisite: CIS 120 4 credit hrs 4 contact

Course objectives

- Recognize TCP/IP layers, components, and functions, and map these to the OSI model
- Describe and implement TCP/IP application services that support electronic mail, remote terminal access, network management, Web access, and file transport across routed networks
- Explain TCP/IP protocols used to transport data over intranets, extranets, and the Internet
- Identify and utilize Internet navigation and searching tools such as Web browsers (HTTP) and file transfer services (FTP, TFTP)
- Design and implement subnetworks
- Design and implement Classless Interdomain Routing (CIDR)
- Choose a routing protocol based on network size and service requirements, including QoS/ToS routing, VLSM, and link redundancy
- Describe TCP/IP support services, including DNS and DHCP
- Use TCP/IP tools to troubleshoot and isolate internetwork communications failures
- Explain how TCP/IP supports converged voice and data networks

Classroom Policies:

All students are expected to conform to the College's Acceptable Use Policy which is posted on the college website [HERE](#). The instructor will review this policy during the first class period, and then periodically throughout the semester. Students found to be in violation of this policy will receive disciplinary action, and possibly receive a zero for affected assignments and/or tests.

Please note that the use of chat software such as Instant Messenger and Microsoft Messenger is NOT allowed at any time. Students are NOT allowed to download and/or install software on lab PC's. Cell phones are permitted, but they are to be used outside of the classroom. iPods and other music or MP3 players are not allowed in the class during discussions.

Students are expected to be responsible adults. They are expected to be respectful to their fellow students. Students who are being disruptive or disrespectful will be warned. If the behavior continues they will be ejected from the class.

Equipment:

During the course of this class the student will need a storage media device such as a USB drive. Please note that the lab computers do not have recordable CD drives. Please ensure that all disks are clearly marked with your own name & contact information. It will be each student's responsibility to bring their disks to class. Please be aware that floppy disks, particularly if used or stored improperly, can fail, and that backup disks are always a good idea. In the event that disks are lost or damaged, it will be the student's responsibility to secure suitable replacements. Students will also be required to provide paper, pens, binders, and notebooks for class presentation/projects.

Attendance:

Students are required to attend all classes. Attendance will have a direct impact on final grades. Roll may be taken at any point during the class period. In order to count as having attended class students must be present when roll is taken. It will be each student's responsibility to obtain copies of lecture notes and to complete all missed assignments without assistance from the instructor. In general, there will be an in-class assignment every day, which will be due before the student leaves. Students who are not present will receive a zero for the in-class assignment. Although it is occasionally necessary for a student to miss a test, students are advised to make all efforts to take all tests and examinations on the scheduled date. There will be no make up unit tests under any circumstances. Students who know in advance that they will miss multiple unit tests are encouraged to drop and take the class again at a later date. Mid term exams, final exams and college break schedules can be viewed on the college website [HERE](#). The grade of "I" or incomplete is rarely given. It will be up to the student to demonstrate extreme circumstances, which prevented them from completing the course. In order to qualify for an incomplete a student must have already completed 80% or more of the course work. The instructor will determine if the student qualifies.

Grading:

Some assignments will be graded based on participation. If, in the opinion of the instructor, the student has made an honest effort and has participated in the project or activity, the grade of "100" will be assigned. If student does not participate they will receive a "0". All grading standards will follow the scale at the end of this document. Grades can be appealed according to the posted process found [HERE](#).

Assignments are to be completed within 1 week. Late work will be accepted with a 25% penalty in scoring. Students who find it impossible to complete their work in a timely fashion should consider re-taking the course at a later date.

In general, there will be an assignment every class period. Assignments will be made during class, and will reflect material covered by the day's reading and lecture.

Tests may consist of a combination of true/false, multiple choice; fill in the blank, matching and short essay. Some tests may also include a timed production component.

Please note that there will not be a curve for this class. There may, however, be opportunities for extra credit at the discretion of the instructor.

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In general, there will be an assignment every class period. Assignments will be made during class, and will reflect material covered by the day's reading and lecture.

Tests will consist of a combination of true/false, multiple choice; fill in the blank, matching and short essay. Some tests may also include a timed production component. Please note that there will not be a curve for this class. There will also be a 1,500-word essay with the topic being any TCP/IP Protocol that the student chooses to write about this is due on the 15th week of class and must be submitted in an electronic format.

Final Grades:

Students will be evaluated based on their individual assignments, class participation, and exams. Point values for assignments, class participation, exams, and the Group Term Project are as follows:

Week	Item	Points	Percentage
1			
2	Quiz	100	4%
3			
4	Quiz	100	4%
5			
6	Quiz	100	4%
7			
8	Mid-Term	300	13%
9			
10	Quiz	100	4%
11			
12	Quiz	100	4%
13			
14	Quiz	100	4%
15			
16	Final	300	13%
	Term Paper	600	26%
	Misc Assignments	500	22%
	Total	2300	100%

Grading Scale:

A	93-100
A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	73-76
C-	70-72
D+	69-67
D	63-66
D -	60-62
F	00-59