Attachment: Current Syllabus for IST3610

Networks and Data Communications I

IST 3610 Fall 2014

**Instructor:** Andrew Drake

**Office Hours:** No set office hours. Please call or e-mail for a time to meet.

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**Class Time:** Wednesday 5:30 – 8:30 Davis Campus 225

**Req. Text:** Manish & Agrawal, *Business Data Communications*. John Wiley & Sons, Inc ISBN 978-0-470-48336-7

**Rec. Text:** Bruzzese, J. Peter., *Windows Server 2008 How-To*. Sams Publishing ISBN 978-0-672-33075-9

Additional information provided as needed in Canvas

**Course Objective:**

The objective of this course is to provide a basic understanding of the technical and management aspects of business data communications and networking. By the end of the course you should be able to:

* Explain how networks such as the Internet move messages from one computer to another though the different hardware and software components
* Explain LAN standards, acquisition, and WAN carrier services.
* Design networks (at a novice level) using a variety of LAN, backbone and WAN technologies and components
* Install, configure, and manage commonly used network software (at a novice level).

This course builds on the knowledge and skills you have acquired in prior IT courses; it is presume that you have a general understanding of information technology and its applications. This syllabus provides a general plan for the course, but some deviations may be necessary. This course uses the wsuonline (Canvas) portal heavily. It is expected that students will check the portal at least once a week.

**Grading:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Exams (3) | 30% |  | 93-100% | A | 73-76% | C |  |
| Labs | 30% |  | 90-92% | A- | 70-72% | C- |  |
| Online Quizzes (13) | 20% |  | 87-89% | B+ | 67-69% | D+ |  |
| Network Practicum Exam (1) | 10% |  | 83-86% | B | 63-66% | D |  |
| Participation | 5% |  | 80-82% | B- | 60-62% | D- |  |
| Packet Capture  TOTAL | 5%  100% |  | 77-79% | C+ | Below 60% | E |  |

Students are expected to attend all classes and exams unless you are absent due to illness or family emergency. If you miss an exam due to the above reasons, you will normally be asked to provide a written excuse before taking a makeup. Otherwise, no makeup will be given and will receive a zero for the grade on that exam.

Any attempt to gain unfair advantage during exams, or submitting another student’s work as your own, is considered cheating. If caught cheating in this class, you will fail the class and the university will pursue the matter.

**Students with Disabilities:**

Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including the syllabus) in alternative formats if necessary.

**Examinations:**

The course will include three exams covering material in the text and lectures. Format of the exams will be multiple-choice, fill in the blank, and short answer. No makeup for missed exams without prior arrangements with the instructor.

**Lab Assignments:**

Lab assignments will provide students with hands-on exposure to a network operating system. Students will work in teams of two or three in configuring the testing network functions. However, each student is expected to explain and demonstrate the network functions. At the end of the semester, students will evaluate their team members as part of the participation grade.

**Online Quizzes:**

Short online quizzes will ensure that students are preparing for class sessions. Quizzes will consist of 20 multiple-choice or true false questions in 30 minutes and cover assigned reading in the Agrawal text. Quizzes will be available in Canvas and are open book, but will have a time limit.

**Network Practicum Exam:**

A hands-on networking practicum will be held at the assigned exam time during finals week. Students will work in teams of two or three in completing a small networking case problem which will include functions from the lab assignments. All students are expected to participate in the practicum and demonstrate network functions to the instructor. No makeup for missed practicum exams without prior arrangements with the instructor.

**Participation:**

Participation and class discussion are an important part of the learning process. Points will be awarded based on comments in class, group project participation, and efforts to facilitate the learning process for others.

**Packet Capture Assignment:**

While learning about different protocols and network standards, students will need to capture packets traveling between their server and workstation. This work can be done throughout the semester. Specific information will be provided through the online portal.