COURSE TITLE BLACKBOARD SITE	INT4023- Exploring IT Security Spring 2012 – http://my.ltu.edu and select CRN 3732
INSTRUCTOR	David K. Clark Technical Sales Executive / AT&T Contact Information dc7936@att.com, Phone numbers to be posted in Blackboard 6:00 PM – 8:00 PM Monday through Friday (Appointment)
SCHEDULE	January 16, 2012 – April 28, 2012 Refer to http://www.ltu.edu/registrars_office/calendar_final_exam.index.asp for the last date to withdraw and other important registration related information.
LEVEL/HOURS PREREQUISITE	BSIT Degree / 03 credit hours Admission / prerequisite requirements: Telecommunications
REQUIRED TEXT (See Blackboard for additional resources)	Roberta Bragg, Mark Rhodes-Ousley, & Keith Strassberg The Complete Reference: Network Security ISBN: 0-07-222697-8 Available for online purchase through LTU Bookstore at: http://lawrence-tech1.bkstore.com/bkstore/TextbookSelection.do?st=489
ADDITIONAL RESOURCES	LTU Online student resources: http://www.ltu.edu/ltuonline/
TECHNICAL SUPPORT	Technical support for using Blackboard is provided by the Helpdesk, 248.204.2330 or helpdesk@ltu.edu. Send the Help Desk a form detailing any issues by clicking here http://tinyurl.com/3yqrvne.

COURSE SCHEDULE FOR COLLEGE OF MANAGEMENT (GRAD) SEMESTER COURSES

This fully online course begins with a partial week online course orientation period to familiarize yourself with the online learning environment and to meet online or via the phone with your instructor. Each subsequent week starts on a Monday and ends on a Sunday.

Dates	Modules	Topics / Readings	Assignments Due
Prior to Semester Start and Jan 16 – Jan 18	Module 0	Overview of textbook Online Learning Orientation Course Orientation and group formation	Course orientation Instructor conversation Individual pre-assessment Syllabus Review
Week of Jan 16 – Jan 22	Module 1 Security, what it means? Voice Systems Security	Review PBX Vulnerability Document Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	**Autobiography Paper** Bb Post regarding Instructor Posted Questions Post News Event (Security)
Week of Jan 23 – Jan 29	Module 2 Network Security Overview	Chapter 1 pages 3– 30 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	**ID Theft Paper** Bb Post regarding Instructor Posted Questions Post News Event (Security)
Week of Jan 30– Feb 5	Module 3 Risk Analysis & Defense Models	Chapter 2 pages 31– 45 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) Online Quiz Chapters 1 & 2
Week of Feb 6– Feb 12	Module 4 Security Policy Development	Chapter 3 pages 47 – 79 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) **Security Policy Paper**
Week of Feb 13– Feb 19	Module 5 The Security Organization	Chapter 4 pages 81– 113 Read Instructor Posted Class Notes	Bb Post regarding Instructor Posted Questions Post News Event (Security)

Dates	Modules	Topics / Readings	Assignments Due
		Pay attention to news radio, TV, etc… for Security Related issues.	Online Quiz Chapters 3 & 4
Week of Feb 20– Feb 26	Module 6 Physical Security & Authentication / Authorization	Chapters 5 & 6 pages 117– 152 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) Online Quiz Chapters 5 & 6
Week of Feb 27– Mar 4	Module 7 Security Architecture, Security Management	Chapter 7 & 8 pages 153 – 190 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) Online Quiz Chapters 7, 8 & 9
Week of Mar 5 – Mar 11	Module 8 Network Design & Device Security	Chapter 9 & 10 pages 193 – 227 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) **Online Mid-Term Exam**
Mid-semester Break – No Classes			
Week of Mar 19 – Mar 25	Module 9 Firewalls & VPNs	Chapter 11 & 12 pages 229 – 262 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) Online Quiz Chap 11 & 12
Week of Mar 26 – Apr 1	Module10 Wireless Security & Intrusion Detection	Chapter 13 & 14 pages 263 – 334 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) Online Quiz Chap 13 & 14
Week of Apr 2 – Apr 8	Module 11 Integrity & Availability	Chapter 15 pages 335– 358 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) **Business Effects Paper**

Dates	Modules	Topics / Readings	Assignments Due
Week of Apr 9 – Apr 15	Module 12	**Instructor questions and posts will be light this week. Focus on completing the Group Paper.**	Bb Discussion Board Forums **Nothing Due This Week**
Week of Apr 16 – Apr 22	Module 13 Disaster Recovery & Business Continuity	Chapter 27 pages 683 – 701 Read Instructor Posted Class Notes Pay attention to news radio, TV, etc… for Security Related issues.	Bb Post regarding Instructor Posted Questions Post News Event (Security) **Group Paper Due**
Week of Apr 23 – Apr 28	Finals Week Course Summary / Final Exam	Read Instructor Posted Class Notes Post any final questions. Take Online Final Exam	Bb Post regarding Instructor Posted Questions Post News Event (Security) **Online Final Exam**

STUDENT EVALUATION

The course has four written assignments, 6 quizzes, a mid-term exam, group paper, and a final exam totaling 1110 points (left column). Letter grades are awarded based on the total number of points achieved (right column). Points are deducted for late assignments (one letter grade per week).

EXAMPLES:

Assignments	Points
Individual Papers (4) 100Pts each	400
Online Quizzes (6) 100Pts each	600
Online posts/forums	130
Mid-term/Final 100Pts each Group Paper (1) 100 Pts	200 100
Total Points	1430

Class Points	Letter Grade
96 and above	A
90 – 95	A-
87 – 89	B+
83 – 86	B
80 – 82	B-
77 – 79	C+
73 – 76	C

70 – 72	C-
61 – 70	D (Undergrad Only)
60 and below	E

Note: Grades lower than a "B" fall below the LTU graduate standard

EDUCATIONAL GOALS

The purpose of this course is to introduce students to vulnerabilities within business communications, both voice and data. This particular course is somewhat technical in nature, however, is more geared towards the business manager, office manager, or other managerial positions directly responsible for the overall business voice and data communications. This course is not intended to make the students security experts, merely expose them to areas where lack of security awareness could be costly to the business.

STUDENT LEARNING OBJECTIVES / OUTCOMES

- What does security mean? What within a business should be secured and why? Who would want to damage a business and why? What is classified as a business asset?
- Voice and Data are equally important. Identify ways to protect the business voice systems. Identify what can happen and what liabilities a business may face if their voice system is compromised. What damage could occur if data assets are compromised?
- Learn how to protect, in the best way possible, internal, as well as external, voice and data network infrastructures. What level of access should employees, contractors, and management have to: the PBX room, server room, database access? Who will monitor and set policy regarding access?
- Identify external organizations that specialize in securing voice and data systems. How can a business protect itself if systems are compromised? What to do when the world begins to crumble around you?
- Can a business afford the costs of securing their network? Can a business afford not to secure their network? What would the costs be if productivity came to a stand still for just one day? What are Disaster Recovery and Business Resumption Planning?

PREREQUISITE SKILLS

Familiarity with business IT infrastructure and the components that make up this LAN/WAN infrastructure would be helpful. Basic understanding is adequate for this course. It would be beneficial to have completed the Telecommunications course with the BSIT program prior to taking this class.

INSTRUCTIONAL METHODS AND COURSE ORGANIZATION

A variety of instructional methodologies are used in this course.
1. Instructor posted class notes.
2. "Strange but True" instructor experiences.
3. Podcasts.
4. Instructor posted questions weekly.

Current News Events – Students are expected to begin taking note of events that happen on a daily or weekly basis related to IT/IS Security issues. The purpose of this exercise is to raise awareness as to the consequences of inadequate Security and the impact it could have on the business. Post on Blackboard the news event in order to share with the class.

Blackboard Learning Environment – Blackboard at my.ltu.edu contains the syllabus, all assignments, reading materials, streaming videos, narrated PowerPoint mini-lectures, podcasts, written lecture notes,

chapter quizzes, links to Web resources, and discussion forums. You will submit all assignments via Blackboard, and are expected to participate regularly in discussion topics. Please take time to familiarize yourself with the organization of the Blackboard site. You will want to check the site frequently for announcements reminding you of new resources and upcoming assignments.

Student/Instructor Conversations – Students keep in touch with the instructor via e-mail messages, telephone conference calls, and IM conversations.

Self-Assessments – Pre- and post- self-assessment tools will help students measure their entering skills and progress during the course.

Required Reading – Textbook chapters should be read according to the schedule outlined in the syllabus. Chapters will be discussed online.

Assignments - A word document entitled "Assignment Description" is posted on Blackboard under "Assignments". Any questions pertaining to the assignments should be emailed to the instructor.

CLASS POLICIES AND EXPECTATIONS

I plan to offer you a valuable learning experience, and expect us to work together to achieve this goal. Here are some general expectations regarding this course:

Each student has a LTU email account. If you wish to use a different email address for this course, please **change your email address in Blackboard under "Blackboard Tools", then "Personal Information"** and send an email to me to store your email address in my directory.

Readings, discussion forum participation, and written assignments must be completed according to the class schedule. It is important to contact the instructor as needed to discuss personal needs regarding course requirements and assignments.

It is essential that all students actively contribute to the course objectives through their experiences and working knowledge.

All assignments must be submitted on schedule, via Blackboard, and using Microsoft Office compatible software. If you need to submit an assignment via email, contact the instructor in advance.

Assignments must be completed to an adequate standard to obtain a passing grade. Requirements for each assignment are detailed in this syllabus.

Be prepared to log into Blackboard at least once each day. Please focus your online correspondence within the appropriate Blackboard discussion forums so that your colleagues can learn from you.

At midterm and at the end of the course, you will be invited to participate in a University evaluation of this course. Your feedback is important to the University, to LTU Online, and to me as an instructor, and I encourage you to participate in the evaluation process.

It is important for you as students to know what to expect from me as your instructor:
- I will be available to you via e-mail and phone, and will promptly reply to your messages.
- I will be available to you for face-to-face appointments as requested.
- I will maintain the Blackboard web site with current materials, and will resolve any content-related problems promptly as they are reported to me.
- I will send out a weekly e-mail update to all class members to guide upcoming work and remind you of assignment due dates.
- I will return all assignments to you promptly, and will include individualized comments and suggestions with each assignment.
- I will hold our personal written or verbal communications in confidence. I will not post any of your assignments for viewing by the class without requesting your approval in advance.

- I will treat all members of the class fairly, and will do my best to accommodate individual learning styles and special needs.
- If any of these points need clarification, or should special circumstances arise that require my assistance, please contact me so that we may discuss and resolve the matter.

PRACTICAL GUIDELINES FOR CLASS LOAD EXPECTATIONS

A three-credit course generally requires <u>at least</u> nine hours per week of time commitment. Here are some practical guidelines to help schedule your time commitments for this online course:

- A 14-week semester (the Summer semester is compressed into 10 weeks) would require at least 126 hours of time commitment to successfully complete all readings, activities, assignments, and texts as described in this syllabus.
- You should reserve at least 6 hours per week to read the required textbook chapters and resources, participate in online discussions, review presentation materials, and work through online quizzes. This effort will total at least 84 hours over the course of the semester.
- You should organize your remaining time to roughly correspond with the point value of each major assignment. This means that you should plan to spend <u>at least</u>:
  - 8-9 hours preparing your case study review;
  - 24-40 hours working with your group on the three parts of your semester-long project;
  - 8-9 hours working on the various components of your reflective consolidation (final exam).

These guidelines may not reflect the actual amount of outside time that you – as a unique individual with your own learning style – will need to complete the course requirements. The number of hours each week will vary based on assignment due dates, so please plan ahead to insure that you schedule your academic, work, and personal time effectively. The following graphic may be used to guide you in planning your weekly course work to remain on schedule:
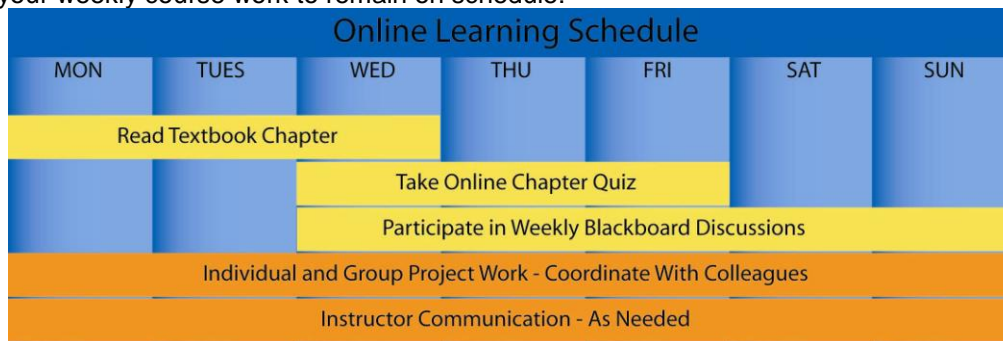
ASSIGNMENT DETAILS

Course assignments and evaluation criteria are detailed below. Please review these requirements carefully. See the section Academic Resources / Assessment Guidelines for information about assessment of written and oral presentations.

Details for all assignments are shown below. Please note that you should not submit any assignments to the Blackboard "Digital Drop Box." All assignments are submitted using the Blackboard "Assignments" or "SafeAssign" function. Some assignments are also posted to the Blackboard Discussion Forum for student comments.

Assignment Weekly Quizzes (100 Points Each)

Overview – Quizzes will be given weekly. The intent of this assignment is to insure the assigned chapters are read as the questions are taken verbatim from the textbook. Each weekly quiz will be available to the student by 8:00 PM Sunday evening and will remain available throughout the week. One hour will be allowed to complete the quiz once it is started. The quizzes are expected to be open book; however it will certainly help if the chapter has been read before the quiz is started.

Assignment: Individual Papers (4 each worth 100 points)

Overview- Please reference the "Assignment Description" document.

Deliverables and Evaluation – Students should post their paper via the Blackboard Assignments function by Friday of the week assigned. **Take note to follow the written paper expectations located in the Assignment Description document.**

Online Participation (130 points)

Each student is expected to actively participate in online activities. Class participation is evaluated to a maximum of 130 points based on:

Responding to all questions posted by the instructor during the timeframe of the module where posted. Active participation in open discussions within forums is expected and will be monitored.

Group Paper, Mid-term, & Final Exams (300 points total)

Mid-term and Final Exams will be conducted just as the weekly quizzes in an online format. Timers will be set and reverse navigation will not be possible. Exams MUST be completed during the week assigned.

Full participation is expected with your assigned group partners for the group paper. Group specific forums will be created for the exchanging of ideas and information within the group. These forums will be monitored by the instructor for participation.

SYLLABUS ADDENDA

Please see the LTU Online "Current Students" web site http://www.ltu.edu/ltuonline/currentonline.asp for comprehensive information about Lawrence Tech's academic services, library services, student services, and academic integrity standards. The content of this web site is explicitly included as syllabus requirements.

The LTU Online "Current Students" web site also includes grading rubrics used by your instructor to evaluate written assignments, discussion forum participation, and group assignments. Please note that the SafeAssign anti-plagiarism product will be used for written assignments submitted for this course. Please see the instructions included on the LTU Online web site regarding the use of the SafeAssign product.