

COURSE TITLE BLACKBOARD SITE	MCS4993 / MCS5993 Introduction to Computer Security (Online) Fall 2012 – http://my.ltu.edu and select CRN 1891 Graduate / 1886 Undergraduate
INSTRUCTOR	Terrance Dillard, PhD, CISSP Adjunct Professor, Lawrence Technological University 248-219-8703 tdillard@ltu.edu Monday – Friday, 10:00 AM – 8:30 PM. (E-mail preferred)
SCHEDULE	August 29, 2012 – December 21, 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	Graduate or Undergraduate Degree / 03 credit hours Graduate: Undergraduate Degree Undergraduates: No Restrictions
REQUIRED TEXT (See Blackboard for additional resources)	Shon Harris, <i>CISSP All-in-One Exam Guide</i> (5th ed.), McGraw-Hill, ISBN: 9780071602174 (Required) 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 Aug 29 – Sep 04	Module 0	Ch2 Security Trends (Read pages 17 - 43)	Course orientation Blackboard Discussion Literature within Blackboard
Week of Sep 05 – Sep 11	Module 1	Ch3 - Information Security and Risk Management • Security Administration and Supporting Controls (Read pages 48 - 56) • Policies, Standards, Baselines, Guidelines, Procedures (Read pages 102 - 109) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Sep 12 – Sep 18	Module 2	Ch3 - Information Security and Risk Management • Security-Awareness Training (Read pages 135 - 137) Ch4 - Access Control • Access Control Overview and Security Principles (Read pages 153 - 155) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Sep 19 – Sep 25	Module 3	Ch4 - Access Control • Identification, Authentication, Authorization, and Accountability (156 - 197) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Sep 26 – Oct 02	Module 4	Ch6 - Physical and Environmental Security • Introduction to Physical Security (401 - 404) • The Planning Process (Read pages 404 - 428) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Oct 03 – Oct 09	Module 5	Ch6 - Physical and Environmental Security • Protecting Assets and Internal Support Systems (Read pages 428 - 445) • Perimeter Security (446 - 470) Information Security Related Current Event (1.15 points) Cybercrime Paper Due (15 points)	Blackboard Discussion Literature within Blackboard Current Event Individual Paper
Week of Oct 10 – Oct 16	Module 6	Ch7 - Telecommunications and Network Security • Open Systems Interconnection Reference Model (Read pages 483 - 498) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Oct 17 – Oct 23	Module 7	Ch8 - Cryptography • The History of Cryptography (Read pages 665 - 671) • Cryptography Definitions and Concepts (Read pages 671 - 690) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Oct 24 – Oct 30	Module 8	Ch8 - Cryptography • Public Key Infrastructure (Read pages 733 - 740 ending with PKI paragraph) Information Security Related Current Event (1.15 points) Insider Threat Paper Due (15 points)	Blackboard Discussion Literature within Blackboard Current Event

Dates	Modules	Topics / Readings	Assignments Due
Week of Oct 31 – Nov 06	Module 9	Ch9 - Business Continuity and Disaster Recovery (Read pages 777 - 781) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Nov 07 – Nov 13	Module 10	Ch10 - Legal Regulations Compliance & Investigations • The Many Facets of Cyberlaw (Read pages 845 - 865) • Privacy (Read pages 865 - 879) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Nov 14 – Nov 18	Module 11	Ch10 - Legal Regulations Compliance & Investigations • A Few Different Attack Types (Read pages 903 - 906) • Ethics (Read (906 - 910) Information Security Related Current Event (1.15 points) Cyber Warfare Paper Due (15 points)	Blackboard Discussion Literature within Blackboard Current Event Individual Paper
Week of Dec 01 – Dec 07	Module 12	Ch12 - Operations Security • The Role of the Operations Department – Administrative Management (Read pages 1049 - 1070) • Media Controls - Data Leakage (Read pages 1070 - 1079) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Dec 08 – Dec 14	Module 13	Ch12 - Operations Security • Network and Resource Availability (Read 1079 - 1095) • E-mail Security (Read 1095 - 1110) Information Security Related Current Event (1.15 points)	Blackboard Discussion Literature within Blackboard Current Event
Week of Dec 15 – Dec 21	Module 14	Information Privacy Paper Due (15 points)	Blackboard Discussion Individual Paper

STUDENT EVALUATION

The course has 7 areas of academic engagement totaling 100 points. Letter grades are awarded based on the total number of points achieved. Points are deducted for late assignments.

EXAMPLES:

Assignments	Points
Discussion Forums	25
Current Events	15
Cybercrime Paper	15
Insider Threat Paper	15
Cyber Warfare Paper	15
Information Privacy Paper	15
Total Points	100

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

Introduction to information security concepts at the system, application, and user levels; encryption and decryption; access control models; security mechanisms in computer programs, operating systems, databases, networks, administration of computer security, and legal/ethical issues in computer security. This course provides foundational knowledge that will enable further study of security concepts within information systems.

STUDENT LEARNING OBJECTIVES / OUTCOMES

To successfully complete this course, you will be expected to:

1. Distinguish the five critical security components of confidentiality, integrity, availability, nonrepudiation, and authenticity; and apply them when evaluating a given security scenario.
2. Describe the process for designing secure applications, including development of security policies, relationship between security mechanisms and policies, as well as various types of security mechanisms.
3. Understand fundamentals of basic cryptography, such as encryption, decryption, symmetric key, asymmetric key, key distribution, message digests, digital signatures, PKI, etc.
4. Identify legal and ethical issues surrounding computer security and protection of personally identifiable information (privacy issues, Computer Security Act, HIPPA, etc.) within information systems.
5. Illustrate an overall understanding of some security applications, including access control, authentication, network security, system security, and user security.

PREREQUISITE SKILLS

Graduate: Undergraduate Degree Undergraduates: No Restrictions

INSTRUCTIONAL METHODS AND COURSE ORGANIZATION

The following instructional mechanisms will be employed:

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.

Literature – Scholarly peer-reviewed literature should be read according to the schedule outlined in the syllabus. Literature will be discussed online.

Assignments – Assignments are comprised of the following:

- Weekly Discussion Forums (25%)
- Weekly Current Events (15%)
- Individual Papers (60%)

CLASS POLICIES AND EXPECTATIONS

This course is based on interactive engagement, learning, and communication. Instructors and students actively contribute to the learning experience through critical dialogue, integrative discovery, and collaborative learning. To acquire knowledge and enhance skills, learners are expected to:

- Read and become familiar with expectations as shown within course syllabus.
- Stay current with assignments and readings.
- Seek clarification regarding any material or course expectations that may be unclear.
- Examine assigned readings and offer thoughtful insights.
- Read all courseroom postings.
- Make a minimum of two substantive postings per week that are collegial and advance the quality of the learning.
- Engage other learners by responding to their postings.
- Be respectful of diverse perspectives and refrain from making inappropriate comments within courseroom discussions and personal communications.

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.

It is important to contact the instructor as needed to discuss personal needs regarding course requirements and assignments.

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 shown within the rubric posted on Blackboard for each assignment.

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.

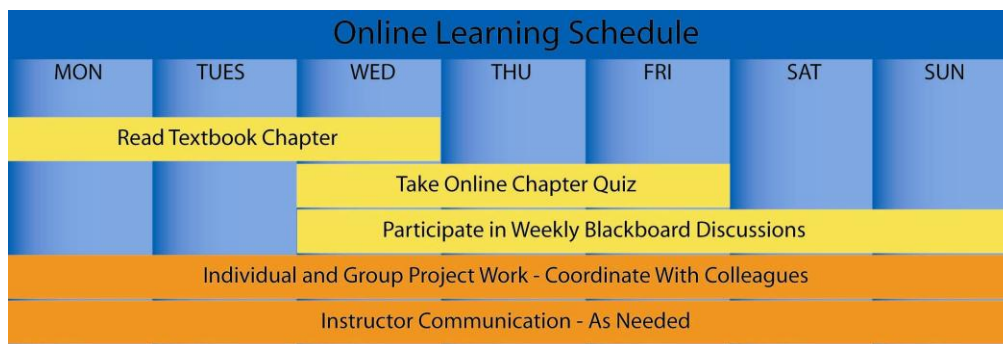
- If any of these points need clarification, or should special circumstances arise that require my assistance, please contact me so that we may discuss and resolve the matter.

PRACTICAL GUIDELINES FOR CLASS LOAD EXPECTATIONS

A three-credit course generally requires at least 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 at least:
 - 30 - 45 minutes identifying Weekly Current Events;
 - 2 - 4 hours working on Weekly Discussion Forums;
 - 10 – 12 hours working on various Individual Papers throughout this course.

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 (75 Points)

Each student is expected to demonstrate scholarship by actively engaging and completing assigned work. Assignments are evaluated to a maximum of 75 points based on:

Assignments	Points
Individual Papers	60
Current Events	15

Examinations and Online Participation (25 points)

Each student is expected to demonstrate scholarship by actively participating in online or on-ground classroom activities. Class participation is evaluated to a maximum of 25 points based on:

Assignments	Points
Critical Thinking and Analysis within Discussion Forums	25

SYLLABUS ADDENDA

Please see the LTU Online “Current Students” web site <http://www.ltu.edu/ltuonline/> 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 in these 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 [eHelp web site](#) regarding the use of the SafeAssign product.

Undergraduates: Leadership Transcripts

The leadership transcript enables students to track co-curricular activities that are undertaken above and beyond the requirements of the LTU curriculum. The leadership transcript serves students by enhancing the leadership portfolio; providing the opportunity for a transcript of distinction; enhancing their resumes; and assisting in articulating leadership experience. It can be accessed by logging on to Banner Web and clicking the Student and Financial Aid tab. Leadership Activities is located at the bottom of the list.