

CSEC 705: Enterprise Security Administration

Course Description

This course serves as an overview of enterprise level cybersecurity governance.

Cybersecurity is an integral part of all digital business. The ability to properly administer and control cybersecurity is vital to the financial success of a company.

In this course, you will gain an understanding corporate governance of cybersecurity programs, and the knowledge and experience required to develop and manage an enterprise information security program. This course will focus on the knowledge areas of information security management, information risk management and compliance, information security program development and management, and information security incident management.

Learning Outcomes

- Understand enterprise level governance of cybersecurity programs
- Understand how to perform risk analysis with regards to corporate cybercrimes.
- Evaluate and understand cybersecurity budgeting and ROI considerations
- Application of cyber security insurance in an enterprise environment
- Understand cost to corporations of cybercrime events
- Understand how to appropriately administer a cybersecurity program to prevent negative impact to the company

Course Materials

- *Cyber Security Management: A Governance, Risk and Compliance Framework; 1st Edition.* Peter Trim and Yang-Im Lee, Routledge ISBN: 978-1472432094

Assignments

Deliverable	Percentage
Exercises (Five)	25%
Exam 1	20%
Exam 2	20%
Final Project	25%
Participation and Professionalism*	10%

* To combat instances of freeloading a team assessment will be administered at the end of the class. The assessment must be submitted to receive a participation and professionalism grade.

Courses/Exercises: These will vary in structure and nature. They are focused on providing some introductory exposure to common tools that are used in the cybersecurity field.

Exercises should be focused on development of cybersecurity governance requirements for an enterprise

Final Project: Each 3 to 4-person group is required to present one 10-minute presentation to the class regarding a cyber security failure case study and how proper governance could have avoided the outcome. Groups will sign up for presentation dates during the second session of class, and topics via an online discussion board.

There are two deliverables for this group project:

1. In-class presentation, which consists of the following:
 - a. General overview of the relevant tool / application
 - i. Include examples or scenarios that are readily understandable to the class
 - b. Purpose of the tool / application and its related threats
 - c. Review of how these threats have been overcome
 - d. Weaknesses in the current tool / application
 - e. Next generation technologies/methods/etc. that are being developed to address these threats
2. Technology summary to be posted to the forum
 - a. Key points of the presentation should be summarized into a two-page document that can be posted to the forum
 - b. Post the text directly into a new post below the topic for these summaries
 - c. Additionally, a useful, yet short introductory video should be posted to the forum so as to aid your peers in beginning to use this tool
 - d. Basic walkthrough of basic tool functionality that would be used as a how-to guide for your peers. This will be graded by your peers.

A more detailed rubric for this assignment will be posted on WebCampus.

Class Professionalism & Participation: Students will be evaluated based on their level of professionalism in class and in class-related activities outside of class. Professionalism includes, but is not limited to, arriving to class on time, paying attention during course lectures and guest presentations, etc. Class participation involves participation during lectures, and guest presentations. Here are some additional pointers regarding participation:

If you almost never speak out in class or miss several classes, you will receive a participation grade of 5 or lower. If you rarely say anything inspired, your participation grade will be in the 8-10 range (depending on how "occasionally" and how well prepared you are). "Inspiration" - the path to a "15" participation grade – involves such actions as:

- applying conceptual material from the readings, lectures, or guest presentations
- doing a bit of outside reading and applying it in the discussion
- integrating comments from previous lectures or presentations
- reaching back to something said previously that is pertinent to the discussion at the moment
- taking substantive issue with a classmate's analysis
- pulling together material from several places
- drawing parallels from previous lectures and discussion
- tying in briefly an experience you have had that is relevant to the discussion
- generally demonstrating that you have carefully read and understood the assigned readings and lectures
- not dominating class discussion

Tentative schedule

Week	Topic	Reading	Assignment / Due
1	Course intro overview	CSM: Chap 1	
2	Basics of Cybersecurity Governance	CSM: Chap 2-3	
3	Business continuity planning Disaster recovery	CSM: Chap 4	Case study 1
4	Risk management	CSM: Chap 5-6	
5	Auditing and Awareness	CSM: Chap 7-8	Case Study 2
6	Integrated Governance and Threat	CSM: Chap 9-10	
7	Cybercrime incidence and cost to industry	CSM: Chap 10	Case Study 3
8	Marketing Analysis of cybersecurity	CSM: Chap 11	Midterm
9	Decision making processes and budgeting	CSM: Chap 12	
10	Cybersecurity integration	CSM: Chap 13	Case Study 4
11	Integrated security management evaluation	CSM: Chap 14-15	
12	Threat assessment and evaluation	CSM: Chap 16	Group Report
13	Governance case studies	See posted materials	
14	Group presentations		Group project
Final	Final 8:10-10:10pm		Final

CSM: *Cyber Security Management: A Governance, Risk and Compliance Framework*

Class Conduct and Related Policies:

Grading of Individual versus Group Work: Team members will receive a collective grade for their team deliverables (i.e., if the team earns an A on one of the components of the business plan then each of the team members receives that grade on this deliverable in the grading spread sheet). If a team member is found to be shirking their responsibilities then steps will be taken to change their behavior and, if that fails, then they will be graded separately for the team deliverables. A team assessment will be administered at semesters end and grades will be adjusted accordingly.

Late Assignments: Late assignments will be allowed only in cases of unavoidable personal or family emergencies and the student must notify me as soon as possible. In all other cases there will be a significant reduction in points for late assignments.

Late or Absent from Class: Though I will not literally take a “roll” each day, I will generally monitor attendance and timeliness for class and this will be factored into the participation score.

Grade Appeals: If you believe there was a mistake made in the grading of one of your assignments please notify me promptly and I will determine whether a review of the assignment is warranted.

University Policies

Academic Misconduct

Academic integrity is a legitimate concern for every member of the Campus community; we all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility, and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy, and are encouraged to always take the ethical path whenever faced with choices. Students enrolling at UNLV assume the obligation to conduct themselves in a manner compatible with UNLV’s educational mission. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another person, from the Internet or any other source without proper citation of the sources. See the [Student Conduct Code](https://www.unlv.edu/studentconduct/student-conduct), <https://www.unlv.edu/studentconduct/student-conduct>.

Auditing Classes

Auditing a course allows a student to continue attending the lectures and/or laboratories and discussion sessions associated with the course, but the student will not earn a grade for any component of the course. Students who audit a course receive the same educational experience as students taking the course for a grade, but will be excused from exams, assessments, and other evaluative measures that serve the primary purpose of assigning a grade.

Classroom Conduct

Students have a responsibility to conduct themselves in class and in the libraries in ways that do not interfere with the rights of other students to learn or of instructors to teach. Use of electronic devices such as pagers, cellular phones, or recording devices, or potentially disruptive devices or activities, are only permitted with the prior explicit consent of the instructor. The instructor may rescind permission at any time during the class. If a student does not comply with established requirements or obstructs the functioning of the class, the instructor may initiate an administrative drop of the student from the course.

Copyright

The University requires all members of the University Community to familiarize themselves with, and to follow copyright and fair use requirements. You are individually and solely responsible for violations of

copyright and fair use laws. The University will neither protect nor defend you, nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional [copyright policy information](http://www.unlv.edu/provost/copyright) is available at <http://www.unlv.edu/provost/copyright>.

Disability Resource Center (DRC)

The [UNLV Disability Resource Center](https://www.unlv.edu/drc) (SSC-A, Room 143, <https://www.unlv.edu/drc>, 702-895-0866) provides resources for students with disabilities. Students who believe that they may need academic accommodations due to injury, disability, or due to pregnancy should contact the DRC as early as possible in the academic term. A Disabilities Specialist will discuss what options may be available to you. If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours, so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

Final Examinations

The University requires that final exams given at the end of a course occur on the date and at the time specified in the Final Exam schedule. The general schedule is typically available at the start of the semester, and the classroom locations are available approximately one month before the end of the semester. See the [Final Exam Schedule](https://www.unlv.edu/registrar/calendars), <https://www.unlv.edu/registrar/calendars>.

Identity Verification in Online Courses

All UNLV students must use their Campus-issued ACE ID and password to log in to WebCampus.

UNLV students enrolled in online or hybrid courses are expected to read and adhere to the [Student Academic Misconduct Policy](https://www.unlv.edu/studentconduct/misconduct/policy), <https://www.unlv.edu/studentconduct/misconduct/policy>, which defines, “acting or attempting to act as a substitute for another, or using or attempting to use a substitute, in any academic evaluation or assignment” as a form of academic misconduct. Intentionally sharing ACE login credentials with another person may be considered an attempt to use a substitute and could result in investigation and sanctions, as outlined in the Student Academic Misconduct Policy.

UNLV students enrolled in online courses are also expected to read and adhere to the [Acceptable Use of Computing and Information Technology Resources Policy](https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy), <https://www.it.unlv.edu/policies/acceptable-use-computing-and-information-technology-resources-policy>, which prohibits sharing university accounts with other persons without authorization.

To the greatest extent possible, all graded assignments and assessments in UNLV online courses should be hosted in WebCampus or another UNLV-managed platform that requires ACE login credentials for access.

Incomplete Grades

The grade of “I” (Incomplete) may be granted when a student has satisfactorily completed three-fourths of course work for that semester/session, but cannot complete the last part of the course for reason(s) beyond the student’s control and acceptable to the instructor, and the instructor believes that the student can finish the course without repeating it. For undergraduate courses, the incomplete work must be made up before the end of the following regular semester. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the period indicated, a grade of “F” will be recorded, and the student’s GPA will be adjusted accordingly. Students who are fulfilling an Incomplete grade do not register

for the course, but make individual arrangements with the instructor who assigned the “I” grade.

Library Resources

Librarians are available to consult with students on research needs, including developing research topics, finding information, and evaluating sources. To make an appointment with a subject expert for this class, please visit the [Libraries’ Research Consultation](#) website:

<http://guides.library.unlv.edu/appointments/librarian>. You can also [ask the library staff](#) questions via chat and text message at: <http://ask.library.unlv.edu/>.

Missed Classwork

Any student missing class, quizzes, examinations, or any other class or laboratory work because of observance of religious holidays will be given an opportunity during that semester to make up the missed work. The make-up opportunity will apply to the religious holiday absence only. It is the responsibility of the student to notify the instructor within the first 14 calendar days of the course for Fall and Spring courses (except for modular courses), or within the first 7 calendar days of the course for Summer and modular courses, of their intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit the Policy for Missed Work, under Registration Policies, on the [Academic Policies](#) webpage, <https://catalog.unlv.edu/content.php?catoid=26&navoid=6046>. In accordance with the policy approved by the Faculty Senate regarding missed class time and assignments, students who represent UNLV in any official extracurricular activity will also have the opportunity to make up assignments, provided that the student provides official written notification to the instructor no less than one week prior to the missed class(es).

The spirit and intent of the policy for missed classwork is to offer fair and equitable assessment opportunities to all students, including those representing the University in extracurricular activities. Instructors should consider, for example, that in courses which offer a “Drop one” option for the lowest assignment, quiz, or exam, assigning the student a grade of zero for an excused absence for extracurricular activity is both contrary to the intent of the Faculty Senate’s policy, and an infringement on the student’s right to complete all work for the course.

This policy will not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the University that could reasonably have been avoided. There should be a good faith effort by both the instructor and the student to agree to a reasonable resolution. When disagreements regarding this policy arise, decisions can be appealed to the Department Chair/Unit Director, College/School Dean, and/or the Faculty Senate Academic Standards Committee.

For purposes of definition, extracurricular activities may include, but are not limited to: fine arts activities, competitive intercollegiate athletics, science and engineering competitions, liberal arts competitions, academic recruitment activities, and any other event or activity sanctioned by a College/School Dean, and/or by the Executive Vice President and Provost.

Rebelmail

Rebelmail is UNLV’s official email system for students, and by University policy, instructors and staff should only send emails to students’ Rebelmail accounts. Rebelmail is one of the primary ways students receive official University communications, information about deadlines, major Campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the University. Emailing within WebCampus is also acceptable.

Tutoring and Coaching

The Academic Success Center (ASC) provides tutoring, academic success coaching, and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, please visit the [ASC website](https://www.unlv.edu/asc), <https://www.unlv.edu/asc>, or call 702-895-3177. The ASC building is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of SSC A, Room 254. Drop-in tutoring is located on the second floor of the Lied Library, and on the second floor of the College of Engineering building (TBE A 207).

UNLV Writing Center

One-on-one or small group assistance with writing is available free of charge to UNLV students at the [Writing Center](https://writingcenter.unlv.edu/), <https://writingcenter.unlv.edu/>, located in the Central Desert Complex, Building 3, Room 301 (CDC 3–301). Walk-in consultations are sometimes available, but students with appointments receive priority assistance. Students may make appointments in person or by calling the Center, 702-895-3908. Students are requested to bring to their appointments their Rebel ID Card, a copy of the instructions for their assignment, and two copies of any writing they have completed on their assignment.

Diversity Statement

As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students, and is committed to aspiring to maintain a Campus environment that values that diversity. Accordingly, the University supports understanding and appreciation of all members of its community, regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity, marital status, pregnancy, genetic information, veteran status, or political affiliation. Please see [University Statements and Compliance](https://www.unlv.edu/about/statements-compliance), <https://www.unlv.edu/about/statements-compliance>.

A successful learning experience requires mutual respect and trust between the students and the instructor. Accordingly, the instructor asks that students be willing to listen to one another's points of view, acknowledging that there may be disagreements, keep discussion and comments on topic, and use first person, positive language when expressing their perspectives.