

Professor: Linda V. Knight, Ph.D.

<http://www.cdm.depaul.edu/People/Pages/facultyinfo.aspx?fid=540>

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(Warning--do NOT use a standard DePaul email address)

Phone: (312) 362-5165
(If you do not catch me on the phone, please leave a number and several suggested times to phone you back.)

Office hours: Since this is an online class, we have online virtual office hours.

- During virtual office hours, you can chat online with me and with your fellow students.
- To attend virtual office hours, just follow the directions on the opening page of our D2L site.
- No matter when I set office hours, it does not work for someone. If you would like to meet me online in our virtual office at another time, just email and we will find a time that works for us both.
- Similarly, if you wish to meet with me in person or on the phone, rather than virtually, just email and we can work together to find a time that works for us both.

Special Accommodations: Students requiring special accommodation, whether to meet special needs, travel schedules, religious obligations, or for another reason, should contact the professor at the start of the course.

Readings

Students should plan on reading at least 90 pages in an average week.

Textbooks

1. **The Basics of Information Security: Understanding the Fundamentals of Information Security in Theory and Practice** by Jason Andress. Syngress Publishing 2011 ISBN:9781597496537. FREE access to this book through Books 24x7 via the DePaul Library This is the book we will use for the first two weeks of the course.
2. **Security Policies and Implementation Issues** by Robert Johnson and Mark Merkow. Jones and Bartlett Publishers. Publication Date: September 15, 2010 | ISBN-10: 0763791326 | ISBN-13: 978-0763791322 | Edition: 1 Free access to this text is also available through the DePaul library and Safari books online. However, there is a limit of 7 readers at any one time and it is not unusual for 40 to 60 students to be registered for this course in any one quarter. Most students will want to purchase this book.
3. **The Security Risk Assessment Handbook: A Complete Guide for Performing Security Risk Assessments**, Second Edition. Auerbach Publications 2011 (498 pages) ISBN:9781439821480 FREE access to this book through Books 24x7 via the DePaul Library However, students with a career interest in risk assessment or management may want to purchase this book.

Desirable background for this course

- **Some background in or knowledge of the concept of information technology.** This may be gleaned from courses or from work, and from a variety of fields, including computer software development, systems analysis and design, or networking, to name a few.

Overview of how the course will work:

- This course does NOT use CDM's COL system. Instead it uses the University's D2L (Desire to Learn) system, which students can access here: <http://d2l.depaul.edu/>
- There is no in-person or on-campus meeting required.
- Because we will not use COL, there will be no automatic videos of 3-hour classroom sessions.
- **In a typical week, there will be four chapters of reading, perhaps supplemented by articles or website references, multiple short videos where I discuss the important or complex issues, a quiz on that week's material, which you can take at your convenience using whatever materials you find helpful, and a short homework assignment.**
- There will be no final or midterm, as I believe weekly short quizzes and assignments provide better opportunities for learning.
- There will be a final take-home project.
- All work will be individual (no group projects).

Primary Learning Goals

1. Intelligently discuss at a basic level each of the ten CISSP domains as they relate to common business practice
2. Analyze the effectiveness of a security policy
3. Apply knowledge of security policy and the role of the CISO to analyze a specific business situation, anticipating potential pitfalls and making recommendations to the CISO for adjustments
4. Analyze an organization and recommend effective security policies, standards, procedures, and guidelines
5. Evaluate alternative risk assessment checklists, selecting the most appropriate one for a given situation.
6. Compare and contrast two alternative data gathering frameworks, with a focus on distilling their relative costs and benefits.
7. Plan an effective risk analysis
8. Plan an effective incident analysis
9. Incorporate security planning during the software development process
10. Plan an effective a security awareness and training program
11. Understand the principles involved in planning for business continuity and disaster recovery
12. Incorporate legal mandates into security and system development plans
13. Effectively balance tradeoffs between security standards and costs or other organizational goals

Week	Topic	Required Readings		Due This Week	
		Book (see chart following this table)	Chapter	Assignment	Quiz
1	The Good, Bad, and Ugly of Online Courses	n/a	n/a	WK 1	QUIZ F1
1	Introduction, including Threats, Vulnerabilities, and Risks;; CIA Triad, Parkarian Hexad; Attacks, Controls, Layered Defense; Security Personnel	Andress (24x7)	1		
1	Identification, Authentication	Andress (24x7)	2		
1	Authorization and Access Control	Andress (24x7)	3		
2	Auditing and Accountability	Andress (24x7)	4	WK 2	QUIZ F2
2	Physical Security	Andress (24x7)	7		
2	Network Security	Andress (24x7)	8		
2	Operating System Security	Andress (24x7)	9		
2	Software Development and Application Security	Andress (24x7)	10		
3	Compliance Laws	Johnson Text	3	WK 3-4 (PART DUE AT END OF EACH WEEK)	QUIZ P1
3	Information Security Policy Implementation Issues	Johnson Text	5		
3	Policy Frameworks	Johnson Text	6		
3	Developing Policy	Johnson Text	7		
4	Applying Policy Frameworks	Johnson Text	8		QUIZ P2
4	User Policies	Johnson Text	9		
4	IT Infrastructure Security Policies	Johnson Text	10		
4	Data Policies	Johnson Text	11		
5	Incident Response Team Policies	Johnson Text	12	WK 5	QUIZ P3
5	Security Policy Implementation	Johnson Text	13		
5	Security Policy Enforcement	Johnson Text	14		
6	Introduction to Risk Assessment	Landoll (24x7)	1	WK 6	QUIZ R1
6	Basics	Landoll (24x7)	2		
6	Project Definition	Landoll (24x7)	3		

Week	Topic	Required Readings		Due This Week	
		Book (see chart following this table)	Chapter	Assignment	Quiz
7	Preparation	Landoll (24x7)	4	WK 7	QUIZ R2
7	Data Gathering	Landoll (24x7)	5		
8	Administrative	Landoll (24x7)	6	WK 8	QUIZ R3
8	Technical	Landoll (24x7)	7		
8	Physical	Landoll (24x7)	8		
9	Risk Analysis	Landoll (24x7)	9	NO ASSIGNMENT	QUIZ R4
9	Risk Assessment Reporting	Landoll (24x7)	11		
9	Risk Mitigation	Landoll (24x7)	10		
9	Risk Assessment Approaches	Landoll (24x7)	13		
10 & 11		N/A	N/A	Final Project Due	N/A

Thoughts from the professor's perspective:

- This is an introductory IT security course, with an emphasis on risk management and policy development. Please do not expect to become the world security expert in 10 weeks.
- If some things appear at first glance a bit easy or a bit difficult, it is because we are working with a very heterogeneous group. Some students have extensive related experience already. Others are totally new to both IT and security.
- The upside to having such a heterogeneous class is the opportunity to learn from one another. Some students bring great experience, wisdom, and knowledge. Others bring the insightful, fresh questions and comments that characterize those new to the field. We all benefit from the open exchange of ideas by members of both groups.

Grading Components

The following components determine the grade:

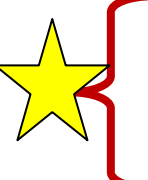
Quiz Average	35%	You will take quizzes online at your convenience most weeks, using whatever materials you find helpful. Within limits, you may repeat the quiz to improve your score. The goal of the quizzes is to reinforce learning and provide additional opportunities for filling any learning gaps.
Assignment Average	30%	Most weeks will have a short written assignment. Often these will involve applications of the course material to real-world situations. The goal of these assignments is to provide opportunities for learning by applying the concepts learned that week to security issues that you would typically encounter in an IT-related career.
Final Case Study	25%	A final take-home case involving applying concepts from the course to a typical real-world situation will be due in place of a Final Exam. Each student will complete this Final Case Study independently.
Participation	10%	<p>At the end of the course, each student's weekly participation posts on our FAQ board will be reviewed and graded on this basis:</p> <ul style="list-style-type: none"> • Was there regular participation each week throughout the course? • Does a random sample of this students' posts give evidence of the following: <ul style="list-style-type: none"> ○ Thoughtful reflection? ○ Consideration of how the material posted relates to the course content? ○ Interaction with other students' posts? <p>The final participation grade will also include keeping up with both the weekly checklists and the weekly checklist items on D2L, as well as participation in assigned but ungraded activities. Participation in online Office Hours will be considered here, for those who participate. However, unlike the other elements of the participation grade, students not participating in Office Hours will not be penalized in any way.</p>

Grade Standards

A	92.0%	C+	78.0%
A-	90.0%	C	72.0%
B+	88.0%	C-	70.0%
B	82.0%	D+	68.0%
B-	80.0%	D	60.0%

Grade of Incomplete The grade of incomplete is seldom approved within the College of CDM. It may be granted only for serious unforeseeable circumstances that make it impossible for a student to meet course requirements, for example emergency hospitalization at the time of a final exam. Such a grade requires the approval of the school's administration, and cannot be granted by the professor alone.

Expectations

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- In an online course, having students ask questions and place comments on an online FAQ board is the equivalent of hearing other students ask questions and discuss material in a traditional classroom.
 - Our online FAQ board is where questions about the course material should be posted.
 - Helpful hints for assignments also will be posted on the FAQ board.
 - Students are expected to *regularly read all FAQ posts* on our D2L site, to be aware of their contents, and to contribute ideas, questions, and helpful advice for other students. This is what 'Participation' means in an online course.
 - Students are accountable for material covered and assignments / announcements made on our D2L site or sent in email to the address they have listed on Campus Connect.
 - Assignments must be submitted as indicated by the professor. Submissions other ways will not be graded.
 - **Late assignments are penalized 10 points per day or portion thereof. No late assignments can be graded after the professor returns or discusses the assignment, or after D2L no longer accepts assignments, whichever comes first.**
 - **Fair warning: points will be deducted when assignment directions are not followed.**
 - **Anything developed or submitted for an employer or another course cannot be submitted for any graded portion of this course without PRIOR permission of the professor.**
 - Any work submitted for this class may be used for educational purposes by the professor, in this course or another class.
 - **Students are responsible for insuring that they have listed the correct email with campus connect so that they receive all course email.**

All students are responsible for having access to a high speed Internet connection, as well as establishing their own computer backup procedures and backing up their own work. Students without any established backup on their microcomputer are advised to sign up for one of the many vendors providing online backup or to purchase a **transportable USB flash drive**, also known as a thumb, keychain, or jump drive, for storing backups of their work. Note that backups should NEVER be stored in the same place as the original.

Statement on Academic Integrity and Plagiarism

University and College of CDM guidelines on academic integrity and plagiarism can be found on the Web and in the Student Handbook and are hereby incorporated in this document.

Changes to Syllabus

This syllabus is subject to change as necessary to better meet student needs. Significant change is not likely. Minor changes to the weekly schedule are possible at any time. Students are responsible for changes posted on D2L or emailed.

The following portion of this syllabus is a required policy statement by DePaul's College of Computing and Digital Media.

Online Teaching Evaluation

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Students complete the evaluation online in [CampusConnect](#).

Email

Email is the primary means of communication between faculty and students enrolled in this course outside of class time. Students should be sure their email listed under "demographic information" at [CampusConnect](#) is correct.

Academic Integrity Policy

This course will be subject to the academic integrity policy passed by faculty. More information can be found at <http://academicintegrity.depaul.edu/>

Plagiarism

The university and school policy on plagiarism can be summarized as follows: Students in this course should be aware of the strong sanctions that can be imposed against someone guilty of plagiarism. If proven, a charge of plagiarism could result in an automatic F in the course and possible expulsion. The strongest of sanctions will be imposed on anyone who submits as his/her own work any assignment which has been prepared by someone else. If you have any questions or doubts about what plagiarism entails or how to properly acknowledge source materials be sure to consult the instructor.

Incomplete

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

Resources for Students with Disabilities

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential. To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at: Lewis Center 1420, 25 East Jackson Blvd. Phone number: (312)362-8002 Fax: (312)362-6544 TTY: (773)325.7296