CSEC 340: Fundamentals of Information Assurance

Fall 2020-2021 / Sections 401, 410

DePaul
UNIVERSITY
COLLEGE OF COMPUTING
AND DIGITAL MEDIA

Course and Instructor Information

Instructor:	Brian Greenberg
Office:	Zoom
Office Hours:	by appointment
Class Time/Place:	D2L | Zoom | on-line
E-mail:	brian.greenberg@depaul.edu

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Instructor Bio

For over 30 years I've been working in information systems and technology at companies of all sizes from the Fortune 100 to startups. I have international experience as an expatriate living and working in Japan and Europe. I'm a technology and product leader, Forbes contributor, and a member of the Forbes Technology Council.

In addition to being an Adjunct Professor in the College of Computing and Digital Media at DePaul University I was Adjunct Professor of Philosophy at William Rainey Harper College.

I earned a B.S. in Philosophy & Applied Computer Science from Illinois State University and a M.A. in Whole Systems Design & Systemic Philosophical Praxis from Antioch University, Seattle. Systems theory, thinking, and design are my passion.

I have expertise in digital transformation, automation, turnaround management, cybersecurity, data storage, and data protection. Indeed, I hope my past experiences are helpful in your learning and making this course interesting for you.

When not teaching or consulting, I like to hike, kayak, read, drink coffee, write comedy, tell stories, and perform as an actor and improvisor in Chicago's comedy community.

For a detailed work history, you should view my LinkedIn profile and be sure to connect and follow me on-line for industry news, updates, and commentary on the state of technology today… *Click to connect* → Facebook | LinkedIn | Twitter | Instagram | Blog | Medium | Forbes

Textbook

Merkow & Breithaupt (2014). *Information Security: Principles and Practices*. 2nd Edition. Pearson IT Certification. ISBN 13: 9780789753250

Available at:

- http://www.informit.com/store/information-security-principles-and-practices-9780789753250
- Amazon
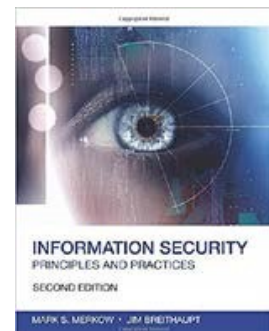- DePaul Bookstore (price matches Amazon)
- Barnes & Noble

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Course Description

This lecture/discussion course is a survey of the fundamental elements of computer security and information assurance. Topics may include confidentiality, integrity, and availability; security policies; authentication; access control; risk management; threat and vulnerability assessment; common attack/defense methods; and ethical issues.

Prerequisite: None

Learning Outcomes

At the conclusion of the course, you will be able to:

- Understand and contextualize the principles of information security in complex systems and organizations
- Understand, implement and develop cybersecurity controls, security policies, procedures, and programs
- Perform threat, vulnerability, and risk assessments
- Plan a security awareness, training and education activity
- Respond in face of new cybersecurity exploits, campaigns, and latest challenges
- Think critically about role of a cybersecurity expert
- Think critically about broader set of factors affecting information security management

Grading

Assignment	Value
Quiz 1	10%
Quiz 2	10%
Quiz 3	10%
Quiz 4	10%
On-line Participation	20%
Mid-Term Exam	20%
Final Exam	20%
Total	**100%**

Percentage Grade	Letter Grade	Manner of Fulfillment
92-100	A	Excellent
90-91	A-	Excellent
88-89	B+	Very Good
82-87	B	Very Good
80-81	B-	Very Good
78-79	C+	Satisfactory
72-77	C	Satisfactory
70-71	C-	Satisfactory
68-69	D+	Poor
62-67	D	Poor
60-61	D-	Poor
0-59	F	Poor

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Week-by-Week (Tentative)

Week	Week of	Event	Chapters
1	9/7	Introductions, expectations, assumptions, and diving into the first two chapters.	Chapter 1 Chapter 2
2	9/14	Quiz 1 (Chapters 1-4)	Chapter 3 Chapter 4
3	9/21		Chapter 5 Chapter 6
4	9/28	Quiz 2 (Chapters 5-7)	Chapter 7
5	10/5	Mid-Term Exam (Chapters 1-7)	Chapter 8
6	10/12		Chapter 9 Chapter 10
7	10/19	Quiz 3 (Chapters 8-10)	Chapter 11
8	10/26		Chapter 12
9	11/2	Quiz 4 (Chapters 11-14)	Chapter 13 Chapter 14
10	11/9		
Finals Week	11/16	Final Exam	

Coursework

Assignments

- Detailed instructions will be posted in D2L.

- All assignments are due by 11:30 p.m. on the date specified. Assignments are considered on time only if they are submitted on the due date as per the submission guidelines.

- Late work is **only** accepted up to 24 hours after the due date for a deduction of 50%. No work will be accepted after that. You should plan beforehand properly. No excuses will be accepted. Please do NOT wait for the last minute to deliver assignments and DO plan for possible computer or network problems.

- For any deliverables, any instance of copying, cheating or plagiarism will be penalized. Students handing in similar work will both receive a zero on the assignment and will face disciplinary actions. All assignments will be checked for plagiarism. Assignments with higher than 20% similarity will not be graded (will receive zero credit).

Quizzes

- You will have four quizzes which will be conducted online in D2L.

- All quizzes are individual work.

- All quizzes will be open Friday 11:30 a.m. and are due by Sunday 11:30 p.m. on the date specified in the course schedule (60 hours for each quiz).

- If you miss a quiz, there will be no makeups—no exceptions.

Exams

- Both mid-term and final exams will be online in D2L in a fashion similar to the quizzes. More information will be posted in D2L.

- The exams will include materials from both the textbook and from the topics covered in the lectures. Some of the lecture materials may not be found in the book. Therefore, it is very important to attend class regularly and view and participate in all on-line activities.

- Exams will be in the form of multiple choice and True/False questions.

- Students are required to take tests at the scheduled time.

- There will be NO MAKEUP EXAM. If you miss the mid-term test without a valid excuse, then your grade on that will be zero. If you miss the mid-term test with a valid excuse and provide proper documentation along with the "Student Absence Notification Form" to the instructor, your final exam grade will be used as the grade for the missed exam. Documentation must be given to your instructor no later than one week following the exam. Detail instructions can be found at this link.

- If you have any question concerning a grade you receive on an exam, it is your responsibility to inform me within one week of the exam. Grades will not be discussed after that time.

Participation

Students are highly encouraged to ask questions and offer comments relevant to the day's topic. Participation allows me to "hear" your voice when grading papers and participation on-line.

The participation grade reflects the effort you put into the class by participating in discussions on-line. Your class participation grade will depend on the substantive contributions and insights you bring to the discussion.

If you miss a participation assignment, there will be no makeups—no exceptions.

Extra Credit Opportunities

You will have the option of extra credit assignments.

Podcasts / Articles / Case Studies

Cybersecurity-related suggestions may be announced weekly in class and your suggestions are welcomed.

Course Policies

Supplemental Material

Syllabus, assignments, rubrics, and announcements will be posted on D2L. You are expected to check the course website and your email at least twice a week.

Attendance

Students are expected to attend each class and to remain for the duration. Coming 15 minutes late or leaving 15 minutes early constitutes an absence for the student. You will be responsible for all material covered in class and for knowledge of any announcements or changes to the schedule made in class, even if you are unable to attend class. Three absences for any reason, whether excused or not, may constitute failure for the course.

Attitude

A professional and academic attitude is expected throughout this course. Measurable examples of nonacademic or unprofessional attitude include but are not limited to: talking to others when the instructor is speaking, mocking another's opinion, cell phones ringing, emailing, texting or using the internet whether on a phone or computer. If any issues arise a student may be asked to leave the classroom. The professor will work with the Dean of Students Office to navigate such student issues.

Civil Discourse

DePaul University is a community that thrives on open discourse that challenges students, both intellectually and personally, to be socially responsible leaders. It is the expectation that all dialogue in this course is civil and respectful of the dignity of each student. Any instances of disrespect or hostility can jeopardize a student's ability to be successful in the course. The professor will partner with the Dean of Students Office to assist in managing such issues.

Cell Phones/On Call

If you bring a cell phone to class, it must be off or set to a silent mode. Should you need to answer a call during class, students must leave the room in a non-disruptive manner. Out of respect to fellow students and the professor, texting is never allowable in class. If you are required to be on call as part of your job, please advise me at the start of the course.

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be addressed during class.

Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable me to continuously tailor teaching methods and course content to meet the learning goals of the course and your academic needs. 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 instructors 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. Please click this link for additional information.

Academic Integrity and Plagiarism

This course will be subject to the university's academic integrity policy. More information can be found at here.

Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the University Academic Calendar. Information on enrollment, withdrawal, grading, and incomplete's can be found here.

Incomplete Grades

An incomplete grade is a special, temporary grade that may be assigned by an instructor when unforeseeable circumstances prevent a student from completing course requirements by the end of the term and when otherwise the student had a record of satisfactory progress in the course.

All incomplete requests must be approved by the instructor of the course and a CDM Associate Dean. Only exceptions cases will receive such approval. Information about the Incomplete Grades policy can be found here.

Students with Disabilities

Students seeking disability-related accommodations are required to register with DePaul's Center for Students with Disabilities (CSD) enabling them to access accommodations and support services to assist with their success. There are two office locations:

- Loop Campus – Lewis Center #1420 – (312) 362-8002
- Lincoln Park Campus – Student Center #370 – (773) 325-1677

Students who register with the Center for Students with Disabilities are also invited to contact Dr. Gergory Moorhead, Director of the Center, privately to discuss how he may assist in facilitating the accommodations to be used in a course. This is best done early in the term. The conversation will remain confidential to the extent possible.

Please click here for Services and Contact Information.

Critical Dates

Students seeking to make adjustments to their courses including drop dates should see the current academic calendar here.