MIS5206 Protection of Information Assets Unit #1

Agenda

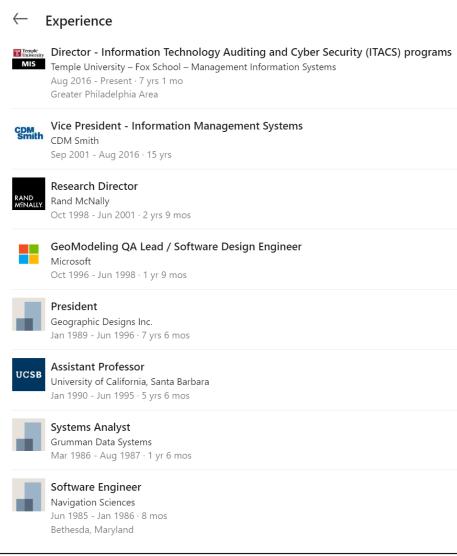
- Instructor
- Course objectives, Class topics and Schedule
- Textbook and Readings
- Grading
- Assignments
- Participation
- Team Project
- Exams
- Quizzes

Instructor



David Lanter
Director - Information Technology Auditing and Cyber
Security Programs

Philadelphia, Pennsylvania · 500+ connections · Contact info



Education University of South Carolina Ph.D., Geographic Information Processing 1987 – 1989



State University of New York at Buffalo
Master's degree, Geographic Information Systems
1983 – 1986

Clark University

Bachelor's degree (with Honors), Science, Technology, and Society: Risk-Hazards/Computer Science
1981 – 1983

Licenses & certifications

(ISC)² Certified Information Systems Security Professional (CISSP)

Issued Oct 2021 · No Expiration Date Credential ID 586876

Certified Information Systems Auditor® (CISA) ISACA

Issued Apr 2015 · No Expiration Date Credential ID 15122708

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 $\begin{tabular}{ll} GISP - Certified Geographic Information Systems Professional \\ GISCI \end{tabular}$

Issued Apr 2015 \cdot No Expiration Date Credential ID 30416

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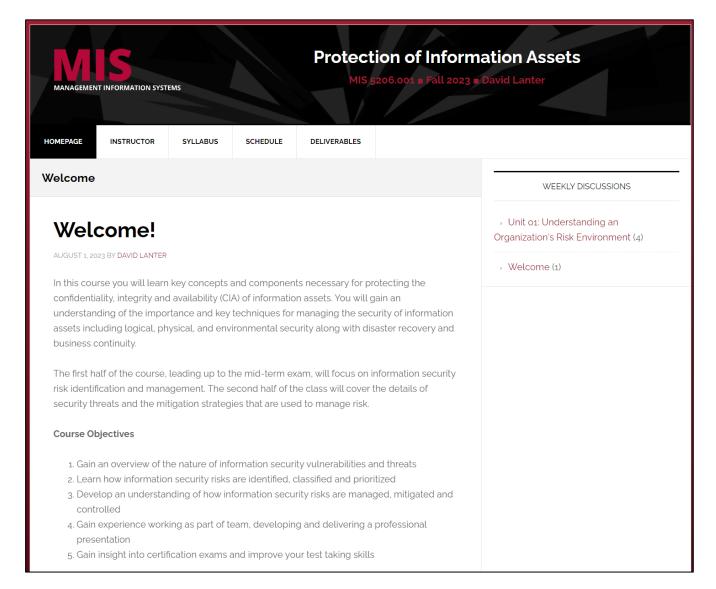
Course objectives

In this course you will gain an understanding of how information assets are managed, in terms of logical, physical, and administrative information systems security controls along with disaster recovery and business continuity

Key subject areas covered in the course are:

- Information Security Risk Identification and Management
- Security Threats and Mitigation Strategies
- First half of the course, leading up to the mid-term exam, will focus on Information Security Risk Identification and Management
- Second half of the class will cover the details of security threats and the mitigation strategies used to mange risk

Course website and syllabus



MIS 5206 Protecting Information Assets

MIS5206 Section 001

Syllabus

Page 1

MIS 5206 – Protection of Information Assets (3 Credit Hours) Fall 2023

Instructor

David Lanter

Office: Speakman 209C and online via Zoom

Office Hours: Before and after class, and by appointment

Email: David.Lanter@temple.edu

e-profile: http://community.mis.temple.edu/dlanter/

Class Format: In-Person

Class Meetings: Wednesdays 9:00AM - 11:30 AM

Where: Alter Hall, Room 505

Website: https://community.mis.temple.edu/mis5206sec001fall2023/

Canvas: https://templeu.instructure.com/courses/131178

Course Description

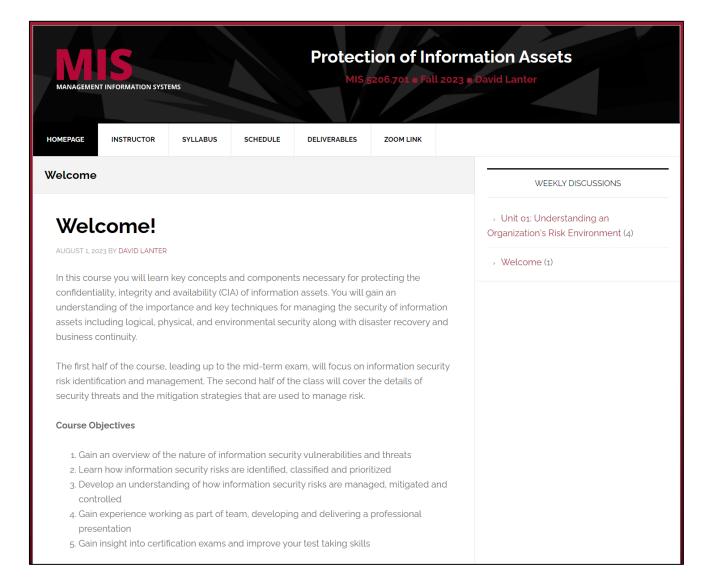
In this course you will learn key concepts and components necessary for protecting the confidentiality, integrity and availability (CIA) of information assets. You will gain an understanding of the importance and key techniques for managing the security of information assets including logical, physical, and environmental security along with disaster recovery and business continuity.

The first half of the course, leading up to the mid-term exam, will focus on Information Security Risk Identification and Management. The second half of the class will cover the details of security threats and the mitigation strategies used to manage risk.

Course Objectives

- 1. Gain an overview of information security vulnerabilities and threats
- 2. Learn how information security risks are identified, classified and prioritized
- Develop an understanding of how information security risks are managed, mitigated and controlled
- Gain experience working as part of team, developing and delivering a professional presentation
- 5. Gain insight into certification exams and improve your test taking skills

Course website and syllabus



MIS 5206 Protecting Information Assets

MIS5206 Section 701 Syllabus Page 1

MIS 5206 – Protection of Information Assets (3 Credit Hours) Fall 2023

Instructor

David Lanter

Office: Speakman Hall Room 209C, and online via Zoom Office Hours: Before and after class and by appointment

Email: <u>David.Lanter@temple.edu</u>

e-profile: http://community.mis.temple.edu/dlanter/

Class Format: Online

Class Meetings: Wednesdays 5:30pm - 8:00pm

Where: Online via Zoom

Website: https://community.mis.temple.edu/mis5206sec701fall2023/category/welcome/

Canvas: https://templeu.instructure.com/courses/131176

Course Description

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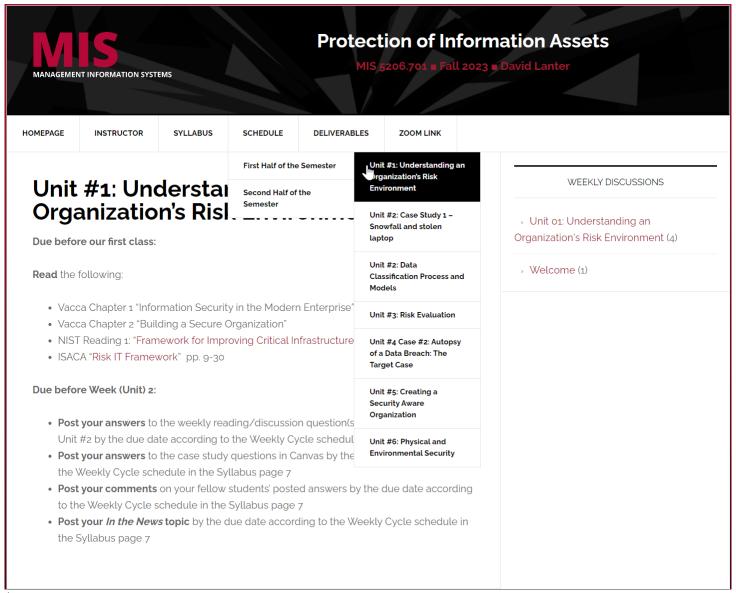
Course Objectives

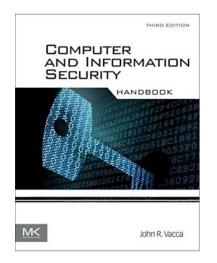
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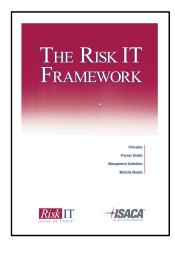
Class topics and schedule

Unit	Assignment Topics	Date
1	Introduction to MIS5206	Aug. 30
1	Understanding an Organization's Risk Environment	Aug. 30
2	Case Study 1: Snowfall and a stolen laptop	Sept. 6
	Data Classification Process and Models	Sept. 0
3	Risk Evaluation	Sept. 13
4	Case Study 2: Autopsy of a Data Breach: The Target Case	Sept. 20
5	Creating a Security Aware Organization	Sept. 27
6	Physical and Environmental Security	Oct. 4
7	Midterm Exam	Oct. 11
8	Case Study 3: A Hospital Catches the "Millennium Bug"	Oct. 18
9	Business Continuity and Disaster Recovery Planning	Oct. 25
10	Network Security	Nov. 1
11	Cryptography, Public Key Encryption and Digital Signatures	Nov. 8
12	Identity Management and Access Control	Nov.15
	Fall Break	Nov. 22
13	Computer Application Security	Nov. 20
15	Team Project Presentations	Nov. 29
1.4	Team Project Presentations	Dog C
14	Review	Dec. 6
15	Final Exam	Dec. 13

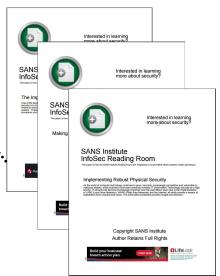
Class topics and schedule



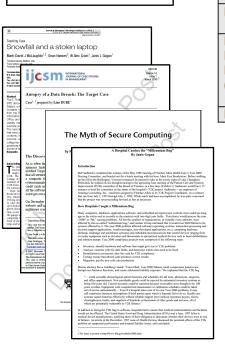




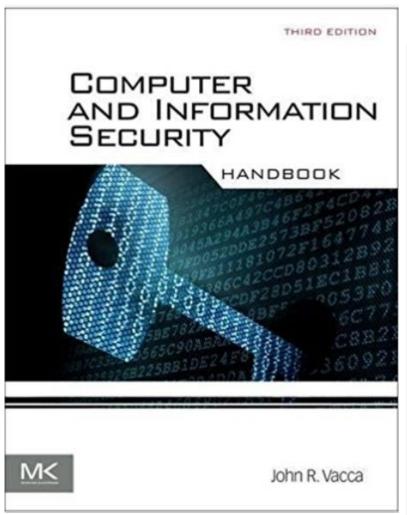




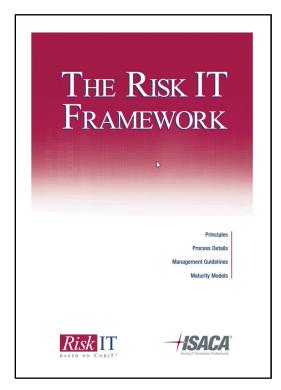




Textbook	Computer and Information Security Handbook - Third Edition, 2017, John R. Vacca,
	Elsevier, Inc. ISBN: 978-0-12-803843-7 Available online at O'Reily for Higher Education
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SACA	ISACA Reading 1: ISACA Risk IT Framework
	ISACA Reading 2: "Disaster Recovery and Business Continuity Planning: Testing an
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	Information Systems"
NIST	NIST Reading 1: "Framework for Improving Critical Infrastructure Cybersecurity"
	NIST Reading 2: "Guide to Protecting the Confidentiality of Personally Identifiable
	Information (PII)"
FGDC	FGDC Reading 1: "Guidelines for Providing Appropriate Access to Geospatial Data in
	Response to Security Concerns"
Harvard	2 case studies and 1 reading are available in the course pack for purchase from HBP:
Business	https://hbsp.harvard.edu/import/853285
Publishing	Case Study 1: "Snowfall and a Stolen Laptop"
(HBP)	Case Study 2: "Autopsy of a Data Breach: The Target Case"
	HBR Reading 1: "The Myth of Secure Computing (HBR OnPoint Enhanced Edition)"
Misc.	Case Study 3: "A Hospital Catches the "Millennium Bug"



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Disaster Recovery and Business Continuity Planning:

Testing an Organization's Plans

By Yusufali F. Musaji, CISA, CGA, CISSP

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Business conti ness success that the department alone the responsibility must become the entire senior man executives in cha VFORMATION S



CISA, CGEIT, CITP, CPA, is an associate professor of information systems (IS) at Birmingham (USA), a Marshall of the Forensic Accounting

Program. Prior to obtaining his doctorate in accountancy from (USA) in 1995, Singleton was president of a small, valueadded dealer of accounting IS using microcomputers in-residence for IT audit

Carr Rings Ingram a lame regional public accounting firm in the southeastern US. In 1999, the Alabama Society of CPAs awarded Singleton the 1998-1999 Innovative User of

the ISACA academic advocate at Birmingham. His articles on governance have appeared in

> to say abou pages of the ISACA ora/iournal), find the article, and choose the Comments tab to



What Every IT Auditor Should Know About **Backup and Recovery**

All entities that use IT and data in their perations have a need for a backup and recover plan. The plan should enable the entity to recover from a loss of data. At the low end of need, the entity may experience a data loss (e.g., corrupted data) and simply need to restore a backup of data. At the high end of need, the entity may experience loss of computer operations and nore, from a pandemic event (e.g., fire, flood, tornado or hurricane).

Entities that have a high risk regarding backup and recovery include, at least, those that rely heavily on IT and data to conduct business, operate solely online (e-commerce) and operate 24/7. More than likely, all Fortune 1,000 enterprises are at a high risk; however, a small entity that uses cutting-edge IT and whose business processes are heavily reliant on IT is also at a high risk.

This column attempts to explain the principles of an effective backup and recovery plan and to provide some guidance for conducting an IT audit for backup and recovery.

Management should provide for a means to back up relevant data on a regular basis. The principle for regular data backups is to back up data daily. That backup could be to media (e.g., tape or external hard drive), or it could be to a remote location via the cloud (i.e., the Internet). If an enterprise is backing up to media the aforementioned principle recommends that backups be conducted to a different media for end-of-week and end-of-month backups (this daily, weekly and monthly set of backups is known as "grandfather-father-son").

The next concern is whether the backur process is reliable. Therefore, upon using a new backup methodology or technology, management should provide a means to test the data afterward to ensure that the process is actually recording all Another concern is where the backup is

stored. If it is stored onsite and if the entity

event would destroy the operational data and the backup data. Thus, the backup principle for torage is to provide a location that is at a safe distance from the entity's location. The cloud automatically provides this element.

Additionally, management should provide a test for restoring the backup at least once a year. That test should be documented, even if it is just a screenshot showing the data restored.

COMPUTER OPERATIONS

The purpose of the computer operations piece of a backup and recovery plan is to recover from a broad, adverse effect on the computer system of the entity (figure 1). This part of the plan is commonly called a business continuity plan (BCP) or disaster recovery plan (DRP).1 The adverse event could be systems-related, such as the failure of a mainframe computer to operate, or it could be the result of a natural disaster, such as a fire that destroys some or all of the computer

Figure 1—Recovery Principles

Identify and rank critical applications.
 Create a recovery team with roles and

Provide a backup for all essential components of computer operations.

Provide for regular and effective testing of the plan.

than simply making a backup of data and being able to restore it effectively when necessary. In this case, it may be necessary to restore everything about the infrastructure: computers, operating systems (OSs), applications and data. Even systems documentation and computer supplies

could be involved. The principles of developing a BCP/DRP include a step to identify the critical applications and rank them in importance of operations. This in providing the recovery team with a blueprint of how to restore application software.

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Misc.	Case Study 3: "A Hospital Catches the "Millennium Bug"



Interested in learning more about security?

SANS Institute InfoSec Reading Room

The Importance of Security Awareness Training

One of the best ways to make sure company employees will not make costly errors in regard to information security is to institute company-wide security-awareness training initiatives that include but are not imitted to d

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	Security Awareness Efforts Work for You	
Build y breach	Interested in learn more about securify SANS Institute InfoSec Reading Room This paper is from the SANS Institute Reading Room site. Reposting is not permitted without express writte Implementing Robust Physical Security As the world of computer technology confinues to grow, becomes increasingly competitive and malicious attacks, every business must more seriously constained if (Information Technology) se priority IT security has become increasingly important over the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the interest of the past filteen years due to the past filteen ye	i ty? n permission.
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Textbook

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Organization's Plans"

Infrastructure"

Way to Begin"

Information Systems"

Response to Security Concerns"

https://hbsp.harvard.edu/import/744826 Case Study 1: "Snowfall and a Stolen Laptop"

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Information (PII)

ISACA Reading 1: ISACA Risk IT Framework

Computer and Information Security Handbook - Third Edition, 2017, John R. Vacca, Elsevier, Inc. ISBN: 978-0-12-803843-7 Available online at O'Reily for Higher Education

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FGDC Reading 1: "Guidelines for Providing Appropriate Access to Geospatial Data in

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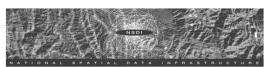
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SANS Reading 5: "The Risks Involved With Open and Closed Public Key

SANS Reading 6: "Assessing Vendor Application Security A Practical

MIS 5206 Protecting Information Assets



Guidelines for Providing Appropriate Access to Geospatial Data in Response to Security Concerns

What is the purpose of the guidelines?

Many public, private, and non-profit organizations. I Dissemination is essential to the missions of many organizations and the majority of these data are appropriate for public release. However, a small portion of these data could pose resists to security and may therefore require safeguarding. Although there is not much publicly available geospatial information that is sensitive (Baker and others, 2004, page 123), managers of geospatial information have safeguarded information using different decision procedures and criteria.

The decision sequence is organized using the following rationale:

- Do the geospatial data originate in the organization?
 If not, the organization is instructed to follow the instructions related to safeguarding that accompany the data.
- II. If the geospatial data originate in the organization, do the data need to be safeguarded? This decision is based on three factors:
- Risk to security: Are the data useful for selecting one or more specific potential targets, and/or for

National Institute of Standards and Technology

U.S. Department of Commerce

Special Publication 800-122

Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)

Recommendations of the National Institute of Standards and Technology

Erika McCallister Tim Grance Karen Scarfone

Framework for Improving Critical Infrastructure Cybersecurity

Version 1.0

National Institute of Standards and Technology

FIPS PUB 199

FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATION

Standards for Security Categorization of Federal Information and Information Systems

Computer Security Division Information Technology Laboratory National Institute of Standards and Technology Gaithersburg, MD 20899-8900

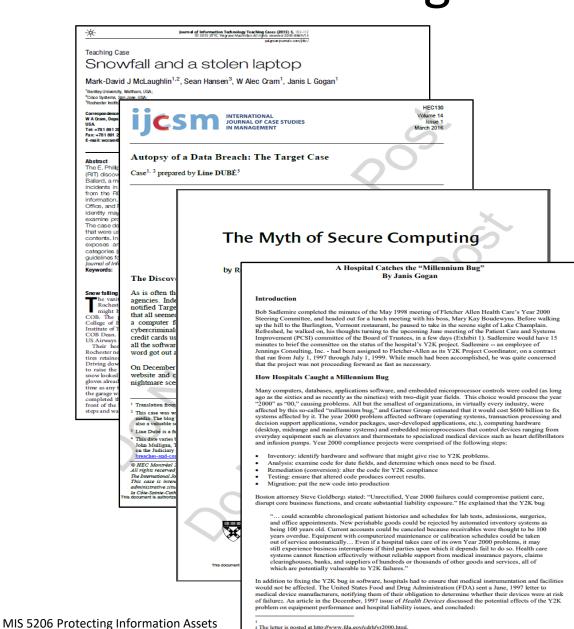
February 2004



U.S. DEPARTMENT OF COMMERCE
Donald L. Evans, Secretary
TECHNOLOGY ADMINISTRATION
Phillip J. Bond, Under Secretary for Technology
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
Arden L. Bemen, Jr., Director

MIS 5206 Protecting Information Assets

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Publishing	Case Study 1: "Snowfall and a Stolen Laptop"
(HBP)	Case Study 2: "Autopsy of a Data Breach: The Target Case"
M1	HBR Reading 1: "The Myth of Secure Computing (HBR OnPoint Enhanced Edition)"
Misc.	Case Study 3: "A Hospital Catches the "Millennium Bug"



2 The letter is posted at http://www.fda.gov/cdrh/yr2000.html.

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Grading

ltem	Weight
Assignments	25%
Participation	25%
Team Project	25%
Exams	25%
	100%

Weekly Cycle



When	Actor	Task	Туре
Thursday	Instructor	Post reading questions	
Sunday 11:59 PM	Student	Post answers to reading questions	Assignment
Tuesday 11:59 PM	Student	Upload answers to case study questions to Canvas	Assignment
Tuesday 11:59 PM	Student	Post 3 comments to others' answers	Participation
Tuesday 11:59 PM	Student	Post "In the News" article	Participation
Wednesday	All of Us	Class meeting	Participation
Thursday or Friday	Instructor	Post Wrap-up notes	

1. Readings

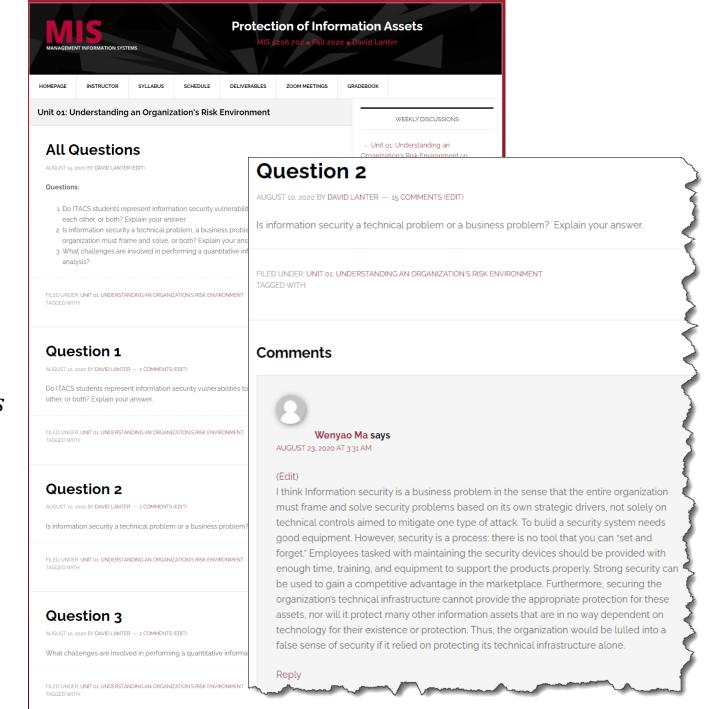
Unit	Readings
1	 Vacca Chapter 1 "Information Security in the Modern Enterprise"
	 Vacca Chapter 2 " Building a Secure Organization"
	 NIST Reading 1: "Framework for Improving Critical Infrastructure
	Cybersecurity"
	ISACA Risk IT Framework, pp. 1-30
2	Case Study 1: "Snowfall and a Stolen Laptop"
	 Vacca Chapter 24 "Information Security Essentials for IT Managers:
	Protecting Mission-Critical Systems"
	 FIPS Reading 1: "Standards for Security Categorization of Federal
	Information and Information Systems"
	 FGDC Reading 1: "Guidelines for Providing Appropriate Access to
	Geospatial Data in Response to Security Concerns"
	 NIST Reading 2: "Guide to Protecting the Confidentiality of Personally
	Identifiable Information (PII)"

Unit	Readings			
1	Vacca Chapter 1 "Information	on Security in the Modern Enterprise"		
	 Vacca Chapter 2 " Building a 			
	O .	k for Improving Critical Infrastructure		
	Cybersecurity"	1 20		
2	 ISACA Risk IT Framework, p Case Study 1: "Snowfall and 			
		ion Security Essentials for IT Managers:		
	Protecting Mission-Critical			
		for Security Categorization of Federal		
	Information and Informatio			
		s for Providing Appropriate Access to		
	Geospatial Data in Response			
		rotecting the Confidentiality of Personally		
2	Identifiable Information (PI			
3	 Vacca Chapter 25 "Security Vacca Chapter 34 "Risk Mar 			
	ISACA Reading 1: "Risk IT F			
4		Data Breach: The Target Case"		
5		Information Technology Security		
1.55	Management"	,		
	 Vacca Chapter 33 "Security 	Education, Training and Awareness"		
		rtance of Security Awareness Training"		
		ecurity Awareness Work for You"		
6	HBR Reading 1: "The Myth			
	Vacca Chapter 69 "Physical CANG Particle 2"			
0		ting Robust Physical Security"		
9	 Case Study 2: "A Hospital Ca Vacca Chapter 61 (online) ": 	SAN Socurity"Vacca		
2		etworking Security Devices"		
	Vacca Chapter 36 "Disaster			
		Recovery Plans for Small and Medium		
	businesses"	*		
		Recovery and Business Continuity Planning:		
	Testing an Organization's P			
		ery IT Auditor Should Know About Backup		
10	and Recovery" Vacca Chapter 8 "Guarding."	Against Network Intrusions"		
10	Vacca Chapter 13 "Internet			
	Vacca Chapter 14 "The Both			
	Vacca Chapter 15 "Intranet			
	 Vacca Chapter 16 (online) " 	Local Area Network Security"		
		Prevention and Detection Systems"		
11	Vacca Chapter 46 (online) "			
	Vacca Chapter 47 "Satellite Vacca Chapter 40 "Public Vacca Chapter 40"			
	 Vacca Chapter 48 "Public Ke Vacca Chapter 51 "Instant-N 			
		ew of Cryptographic Hash Functions and		
	Their Uses"	ew of dryptograpine mash runctions and		
		Involved with Open and Closed Public Key		
	Infrastructure"	all an application of the deletion of the latest complete the application of the translation of the application of the applica		
12		entity and User Management Services"		
	Vacca Chapter 52 "Online Programme 1.1"	CONTRACTOR OF THE PROPERTY OF		
	Vacca Chapter 53 "Privacy-l			
	Vacca Chapter 59 "Identity" Vacca Chapter 50 "Identity"			
13	 Vacca Chapter 59 "Identity" SANS Reading 6: "Assessing 	Vendor Application Security A Practical		
13	Way to Begin"	vehicor Application Security A Fractical		
		on Development Technology and Tools:		
		anagement with secure programming		
	practices, a defense in-dept	n approach"		

2. Answer reading questions

Questions are posted on the MIS5214 class web site questions organized by Unit # for the readings. You are expected to post your answers to the questions as you complete each unit.

- A paragraph or two of thoughtful analysis is expected for your answer to each question
- Post your answer to the class assignment blog
- Come to class prepared to discuss all of the questions in detail when we meet



MIS 5206 Protecting Information Assets

Weekly Cycle

When	Actor	Task	Туре
Thursday	Instructor	Post reading questions	
Sunday 11:59 PM	Student	Post answers to reading questions	Assignment
Tuesday 11:59 PM	Student	Upload answers to case study questions to Canvas	Assignment
Tuesday 11:59 PM	Student	Post 3 comments to others' answers	Participation
Tuesday 11:59 PM	Student	Post "In the News" article	Participation
Tuesday 11:59 PM Wednesday	Student All of Us	Post "In the News" article Class meeting	Participation Participation

Unit	Assignment Topics	Date
1	Introduction to MIS5206	A 20
1	Understanding an Organization's Risk Environment	Aug. 30
2	Case Study 1: Snowfall and a stolen laptop	Comb C
2	Data Classification Process and Models	Sept. 6
3	Risk Evaluation	Sept. 13
4	Case Study 2: Autopsy of a Data Breach: The Target Case	Sept. 20
5	Creating a Security Aware Organization	Sept. 27
6	Physical and Environmental Security	Oct. 4
7	Midterm Exam	Oct. 11
8	Case Study 3: A Hospital Catches the "Millennium Bug"	Oct. 18
9	Business Continuity and Disaster Recovery Planning	Oct. 25
10	Network Security	Nov. 1

3. Three case studies

You will find discussion questions for each case study posted on the class web site).

Answer each question in depth as part of your individual preparation.



evening answering emails and reviewing some materials in preparation for several upcoming meetings. The intruder's trail led through the den and into the front hall. He felt a cold wind blowing through the front door - why was it open? Then he felt another chilk from the sudden realization that his laptop, which he'd left on the couch in the den before taking

his wife to the airport, was no longer there. After shutting an gloves already on and the snow tapering off, this was as good a locking the front door, he raced through the house to verif goves arealy on and the show depering out, this sick a good as the control of the public excises, to be guided a show of the control control of the control control of the control con

teps and walk. A few minutes later, after depositing the shovel police - and Dave Ballard

A Hospital Catches the "Millennium Bug By Janis Gogar

Bob Sadlemire completed the minutes of the May 1998 meeting of Fletcher Allen Health Care's Year 2000 Steering Committee, and headed out for a lunch meeting with his boss, Mary Kay Boudewyns. Before walking up the hill to the Burlington, Vermont restaurant, he paused to take in the serene sight of Lake Champlain.
Refreshed, he walked on, his thoughts turning to the upcoming June meeting of the Patient Care and Systems Improvement (PCSI) committee of the Board of Trustees, in a few days (Exhibit 1). Sadlemire would have 15 minutes to brief the committee on the status of the hospital's Y2K project. Sadlemire -- an employee of Jennings Consulting, Inc. - had been assigned to Fletcher-Allen as its Y2K Project Coordinator, on a contract that ran from July 1, 1997 through July 1, 1999. While much had been accomplished, he was quite concerned

How Hospitals Caught a Millennium Bug

Many computers, databases, applications software, and embedded microprocessor controls were coded (as long ago as the sixties and as recently as the nineties) with two-digit year fields. This choice would process the year "2000" as "00," causing problems. All but the smallest of organizations, in virtually every industry, were affected by this so-called "millennium bug," and Gartner Group estimated that it would cost \$600 billion to fix systems affected by it. The year 2000 problem affected software (operating systems, transaction processing and decision support applications, vendor packages, user-developed applications, etc.), computing hardware (desktop, midrange and mainframe systems) and embedded microprocessors that control devices ranging from everyday equipment such as elevators and thermostats to specialized medical devices such as heart defibrillators and infusion pumps. Year 2000 compliance projects were comprised of the following steps

- Inventory: identify hardware and software that might give rise to Y2K problem
- Analysis: examine code for date fields, and determine which ones need to be fixed.
- Remediation (conversion): alter the code for Y2K compliance Testing: ensure that altered code produces correct results.

Boston attorney Steve Goldberg: stated: "Unrectified, Year 2000 failures could compromise patient care disrupt core business functions, and create substantial liability exposure." He explained that the Y2K bug

"... could scramble chronological patient histories and schedules for lab tests, admissions, surgeries, and office appointments. New perishable goods could be rejected by automated inventory systems as being 100 years old. Current accounts could be canceled because receivables were thought to be 100 years overdue. Equipment with computerized maintenance or calibration schedules could be taken out of service automatically... Even if a hospital takes care of its own Year 2000 problems, it may still experience business interruptions if third parties upon which it depends fail to do so. Health care systems cannot function effectively without reliable support from medical insurance payors, claims clearinghouses, banks, and suppliers of hundreds or thousands of other goods and services, all of

In addition to fixing the Y2K bug in software, hospitals had to ensure that medical instrumentation and facilities would not be affected. The United States Food and Drug Administration (FDA) sent a June, 1997 letter to medical device manufacturers, notifying them of their obligation to determine whether their devices were at risk of failure2. An article in the December, 1997 issue of Health Devices discussed the potential effects of the Y2K problem on equipment performance and hospital liability issues, and concluded:

2 The letter is posted at http://www.fda.gov/cdrh/yr2000.html.

INTERNATIONAL JOURNAL OF CASE STUDIES IN MANAGEMENT

Autopsy of a Data Breach: The Target Case

Case 1, 2 prepared by Line DUBÉ

On December 19, 2013, Target, the second-largest retailer in the United States, announced a breach involving the theft of data from over 40 million credit and debit cards used to make purchases in its U.S. stores between November 27 and December 18.4

On January 10, 2014, it reported that the cybercriminals had also stolen personal data, including the names, telephone mumbers, home addresses and email addresses of up to 70 million additional customers.

As is often the case in such situations, Target learned of the data breach from law enforcement agencies. Indeed, on December 13, 2013, representatives from the U.S. Department of Justice notified Target's management of a large number of faudulent debit and credit card transactions that all seemed to share a link to transactions made at Target. Following this meeting. Target hired a computer forensics firm to investigate the breach. The results confirmed its worst fears cybercriminals had been hacking into Target's systems and stealing data from 40 million debit and credit cards used in its U.S. establishments since November 27. Target wasted no time eradicating all the software used by the cybercriminals, but despite the company's eagerness to stifle the news,

On December 19, under growing pressure, Target announced the breach and theft of the data. Its website and call centre were quickly inundated with calls from worried consumers, creating a nightmare scenario for its customer service department. To make matters even worse, the breach

- Translation from the French by Andrea Newhofer of case #9 65 2016 001, "Autopsie d'un vol de données : le cas Tarset
- This case was written using public information sources and therefore reflects the facts, opinions and analyses published in the media. The blog by the investigative reporter Brian Krebs (reboonsecurity com), an expert in the field of computer security, was also a valuable source of information. See the list of publications used at the end of the case.
- This date varies between December 15 and 18, depending on the source. December 18 is used here because it is the date given by John Mullipan, Target's Essecutive Vice-President and Chief Financial Officer, in settingue ybefore the U.S. Seaste Committee on the Publicates on Perbauxy 4, 2014 (see http://www.tudicary.usente.gov/meeldate/turixxy-in-dis-distribates-presenting-dates).

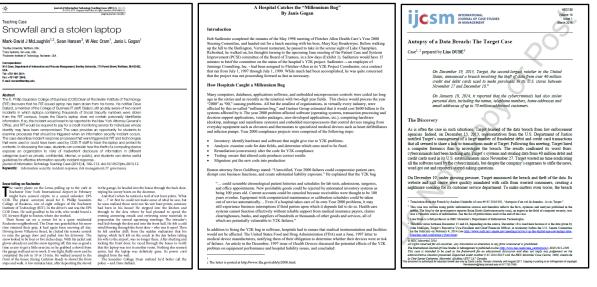
Line Dubé is a full professor in HEC Montréal's Department of Information Technologie

Individual preparation is done as homework assignments that will prepare you to contribute in group discussion meetings. It will prepare you to learn from what others say.

To fully benefit from the interchange of ideas about a case's problem, however, you must possess a good understanding of the facts of the case and have your own ideas.

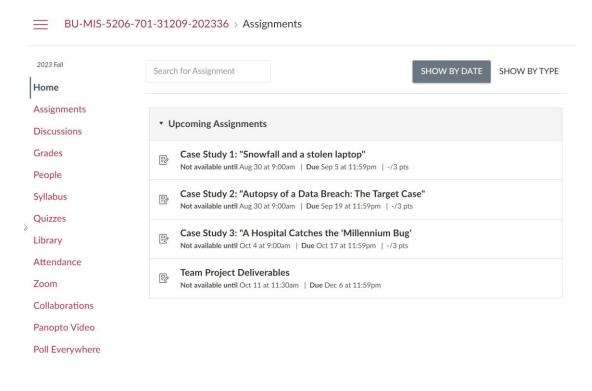
Studying the case, doing your homework and answering the questions readies you to react to what others say. This is how we learn...

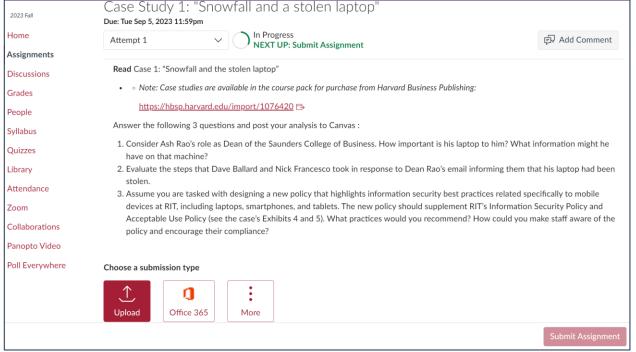
3. Three case studies (continued...)



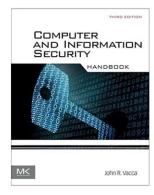
- ii. <u>Group discussions</u> are informal sessions of give and take. Come with your own ideas and leave with better understanding. By combining your insights with those of the group you advance your own analysis. Discussions within small groups is also helpful for those uncomfortable talking in large classes to express their views and gain feedback.
- iii. <u>Class discussion</u> advances learning from the case, but does not necessarily solve the case. Rather it helps develop your understanding of why you need to gain more knowledge and learn concepts that provide the basis of your intellectual toolkit you develop in class and apply in practice.

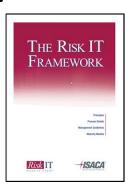
3. Three case studies (continued...)



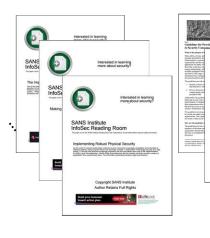


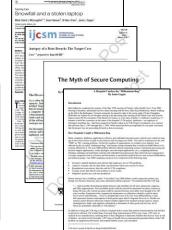
- 1. Readings
- 2. Answers to questions
- 3. Case study analyses





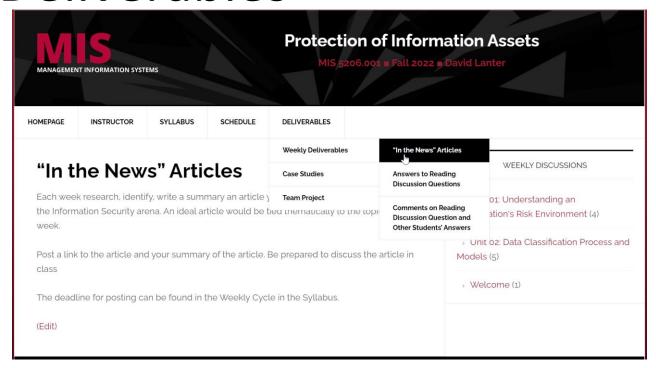






Unit		Readings
1	•	Vacca Chapter 1 "Information Security in the Modern Enterprise"
	•	Vacca Chapter 2 " Building a Secure Organization"
	•	NIST Reading 1: "Framework for Improving Critical Infrastructure
	•	Cybersecurity"
2	•	ISACA Risk IT Framework, pp. 1-30 Case Study 1: "Snowfall and a Stolen Laptop"
		Vacca Chapter 24 "Information Security Essentials for IT Managers:
	-	Protecting Mission-Critical Systems"
	•	FIPS Reading 1: "Standards for Security Categorization of Federal
		Information and Information Systems"
	•	FGDC Reading 1: "Guidelines for Providing Appropriate Access to
		Geospatial Data in Response to Security Concerns"
	•	NIST Reading 2: "Guide to Protecting the Confidentiality of Personally
3	•	Identifiable Information (PII)" Vacca Chapter 25 "Security Management Systems"
3		Vacca Chapter 34 "Risk Management"
	•	ISACA Reading 1: "Risk IT Framework" pp. 31-46
4	•	Case Study 2: "Autopsy of a Data Breach: The Target Case"
5	•	Vacca Chapter 27 (online) "Information Technology Security
		Management"
	•	Vacca Chapter 33 "Security Education, Training and Awareness"
	•	SANS Reading 1: "The Importance of Security Awareness Training"
	•	SANS Reading 2: "Making Security Awareness Work for You"
6	•	HBR Reading 1: "The Myth of Security Computing"
	•	Vacca Chapter 69 "Physical Security Essentials" SANS Reading 3: "Implementing Robust Physical Security"
8	•	Case Study 2: "A Hospital Catches the "Millennium Bug"
9	•	Vacca Chapter 61 (online) "SAN Security" Vacca
	•	Chapter 62 "Storage Area Networking Security Devices"
	•	Vacca Chapter 36 "Disaster Recovery"
	•	Vacca Chapter 37 "Disaster Recovery Plans for Small and Medium
		businesses"
	•	ISACA Reading 2: "Disaster Recovery and Business Continuity Planning:
		Testing an Organization's Plans"
	•	ISACA Reading 3: "What Every IT Auditor Should Know About Backup and Recovery"
10	•	Vacca Chapter 8 "Guarding Against Network Intrusions"
=.Ak	•	Vacca Chapter 13 "Internet Security"
	•	Vacca Chapter 14 "The Botnet Problem"
	•	Vacca Chapter 15 "Intranet Security"
	•	Vacca Chapter 16 (online) "Local Area Network Security"
44	•	Vacca Chapter 72 "Intrusion Prevention and Detection Systems"
11	•	Vacca Chapter 46 (online) "Data Encryption"
	•	Vacca Chapter 47 "Satellite Encryption" Vacca Chapter 48 "Public Key Infrastructure"
	•	Vacca Chapter 51 "Instant-Messaging Security"
	•	SANS Reading 4: "An Overview of Cryptographic Hash Functions and
	10.33	Their Uses"
	•	SANS Reading 5: "The Risks Involved with Open and Closed Public Key
	9	Infrastructure"
12	•	Vacca Chapter 71 "Online Identity and User Management Services"
	•	Vacca Chapter 52 "Online Privacy"
	•	Vacca Chapter 53 "Privacy-Enhancing Technologies"
	•	Vacca Chapter 59 "Identity Theft - First Part"
13	•	Vacca Chapter 59 "Identity Theft - Second Part" SANS Reading 6: "Assessing Vendor Application Security A Practical
13	•	Way to Begin"
	•	SANS Reading 7: "Application Development Technology and Tools:
	3555	Vulnerabilities and threat management with secure programming
		practices, a defense in-depth approach"

Deliverables



All Questions

AUGUST 25, 2021 BY DAVID LANTER (EDIT

- What are 3 types of risk mitigating controls? Which is the most important? Why is it the most important?
- 2. How you would apply the FIPS 199 security categorizations to decide if each of the information security risk mitigations ("safeguards") described in the FGDC guidelines is needed?
- 3. Which information security objective(s) could be put at risk if the alternative safeguards recommended by the FGDC guidelines are applied? Explain how the objective(s) is put at risk by the mitigation(s).

FILED UNDER: UNIT 02: DATA CLASSIFICATION PROCESS AND MODELS

TAGGED WITH

Question 1

AUGUST 25, 2021 BY DAVID LANTER - 60 COMMENTS (EDIT)

What are 3 types of risk mitigating controls? Which is the most important? Why is it the most important?

FILED UNDER: UNIT 02: DATA CLASSIFICATION PROCESS AND MODELS

Question 2

AUGUST 25, 2021 BY DAVID LANTER -41 COMMENTS (EDIT)

How you would apply the FIPS 199 security categorizations to decide if each of the information security risk mitigations ('safeguards') described in the FGDC guidelines is needed?

FILED UNDER: UNIT 02 DATA CLASSIFICATION PROCESS AND MODELS TAGGED WITH:

Question 3

AUGUST 25, 2021 BY DAVID LANTER - 47 COMMENTS (EDIT)

Which information security objective(s) could be put at risk if the alternative safeguards recommended by the FGDC guidelines are applied? Explain how the objective(s) is put at risk by the mitigation(s).

FILED UNDER: UNIT 02: DATA CLASSIFICATION PROCESS AND MODELS TAGGED WITH:

In the News

AUGUST 25, 2021 BY DAVID LANTER - 25 COMMENTS (EDIT)

Participation

1. Comment on weekly discussion question answers and comments posted by other students

Read the responses of others to the discussion questions and contribute at least three (3) substantive posts that include your thoughtful comments as you participate in the discussion of the questions with your classmates

Comments



Wenyao Ma says

AUGUST 23, 2020 AT 12:28 AM

(Edit

I think ITACS students and Temple University both present information security vulnerabilities to each other. Because information as intangiable asset minding a company's most valuable assets and modern threats are ubiquitous and dynamic; you can never be sure what might happen next. Moreover, In the modern Internet society, information security system is complex and difficult to control, and people's attitude towards information security is also annoying. So information security is easy to be ignored. I think both ITACS and Temple have information security problems, and whenever they find information security vulnerabilities, they should bring them up.

Reply



Priyanka Ranu says

AUGUST 24, 2020 AT 8:06 AM

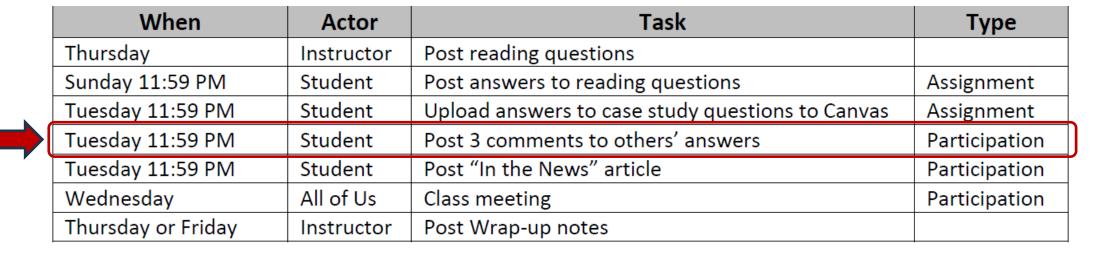
(Edit)

Hi Wenyao,

I agree that ITACS students and Temple University both present information security vulnerabilities to each other. Everything is available easily online and we sometimes ignore security thinking its all taken care of and safe. But that's not the case and as you said information is an intangible asset and we can never be sure what will happen next. I believe there should be strict security measures at organizations to protect sensitive information. The first step can be to provide appropriate training to everyone involved so that they are aware as to what steps should be taken to mitigate the risks.

Reply

Weekly Cycle



Participation

2. "In the News" articles



In the News

AUGUST 29, 2023 BY DAVID LANTER — LEAVE A COMMENT (EDIT)



Protection of Information Assets

5 5206.001 # Fall 2023 # David Lanter

INSTRUCTOR SYLLABUS SCHEDULE DELIVERABLES Unit 02: Data Classification Process and Models WEEKLY DISCUSSIONS Unit of Understanding an **All Questions** Organization's Risk Environment (4) AUGUST 20, 2023 BY DAVID LANTER (EDIT. Unit oz: Case Study 1 - Snowfall and a 1 What are 3 types of risk mitigating controls? Which is the most important? Why is it the stolen laptop (5) Unit oz: Data Classification Process and 2. How you would apply the FIPS 199 security categorizations to decide if each of the Models (5) information security risk mitigations ("safeguards") described in the FGDC guidelines is 3. Which information security objective(s) could be put at risk if the alternative safeguards recommended by the FGDC guidelines are applied? Explain how the objective(s) is put at risk by the mitigation(s). FILED UNDER: UNIT 02: DATA CLASSIFICATION PROCESS AND MODELS Question 1 What are 3 types of risk mitigating controls? Which is the most important? Why is it the most FILED UNDER: UNIT 02: DATA CLASSIFICATION PROCESS AND MODELS Question 2 AUGUST 29-2023 BY DAVID LANTER — LEAVE A COMMENT (EDIT) How you would apply the FIPS 199 security categorizations to decide if each of the information security risk mitigations ('safeguards') described in the FGDC guidelines is needed? FILED UNDER: UNIT 02: DATA CLASSIFICATION PROCESS AND MODELS

Question 3

AUGUST 29, 2023 BY DAVID LANTER - LEAVE A COMMENT (EDIT)

Which information security objective(s) could be put at risk if the alternative safeguards recommended by the FGDC guidelines are applied? Explain how the objective(s) is put at risk by the mitigation(s).

FILED UNDER: UNIT 02: DATA CLASSIFICATION PROCESS AND MODELS

In the News

AUGUST 29, 2023 BY DAVID LANTER — LEAVE A COMMENT (EDIT)

Participation

2. "In the News" articles



https://www.theregister.co.uk/security/

http://www.eweek.com/security

https://www.computerworld.com/category/security/

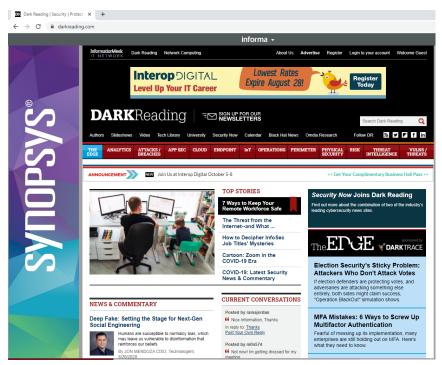
https://krebsonsecurity.com/

:

Research article you found about a current event in the Information Security arena

Identify, write a summary, post a link to your summary, and be prepared to discuss in class

An ideal article would be tied thematically to the topic of the week. However, any article you find interesting and would like to share is welcome



Weekly Cycle

When	Actor	Task	Туре
Thursday	Instructor	Post reading questions	
Sunday 11:59 PM	Student	Post answers to reading questions	Assignment
Tuesday 11:59 PM	Student	Upload answers to case study questions to Canvas	Assignment
Tuesday 11:59 PM	Student	Post 3 comments to others' answers	Participation
Tuesday 11:59 PM	Student	Post "In the News" article	Participation
Wednesday	All of Us	Class meeting	Participation
Thursday or Friday	Instructor	Post Wrap-up notes	

Participation

3. During class



We will often begin a class with a discussion of your In The News article or answers to questions about assigned readings or the case study

When you are called on, you should summarize the key issues, opportunities, and challenges in the reading or question

Be prepared to answer all the assigned questions

Another important aspect of in-class participation is completion of in-class assignments and contribution to group and team activities

Participation

- 1. Comment & participate in discussions of questions on blog site
- 2. Research, summarize and discuss "In the News" article in class
 - 3. Participate in discussions during class





Zibai Yang says

AUGUST 24, 2020 AT 9:03 PM

(Edit)

In my opinion, ITACS Students represent information security vulnerabilities to Temple University and to each other. The defects of information security vulnerabilities exist in various levels and links of the information system in different forms. A mobile phone or a computer a student owned could be the vulnerabilities for the entire schools information security, since student always connect to the university's network all the time. On the contrary, once schools information security system is breached, other students' information will be leaked due to the breach of the system. Therefore, weaknesses are mutual. It is important that both side need to increase their cybersecurity level by install anti-virus app, and don't open suspicious link. School upgrade their security system regularly. Both side make effort, will help a lot and reduce the existence of information security vulnerabilities.

Reply

Leave a Reply Cancel reply

Logged in as David Lanter. Log out?

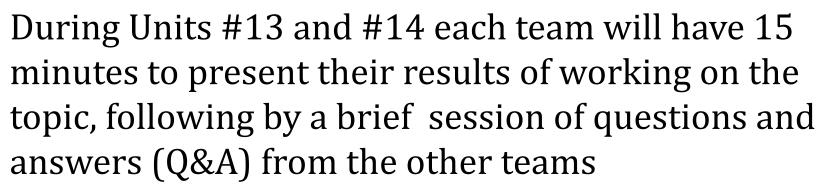
Comment			
			,

POST COMMENT

Team project

Students will be organized into presentation development and delivery teams

Each team will be assigned a topic and will work together to develop a presentation covering the assigned topic



Teams not presenting are responsible for asking thoughtful and insightful questions at the end of each presentation



Exams

There will be two exams, together these exams are weighted 25% of each student's final

grade

Date	Exam	
Oct. 11	Midterm	
Dec. 13	Final	

The exams will consist of multiple-choice, and possibly fill in the blank or short answer questions

The Midterm Exam will occur during Week #7 and the Final Exam will occur during finals week

The final exam will be cumulative, but more focused on the course materials since the beginning of the midterm exam

Expect important concepts highlighted in class to appear on both exams

Quizzes

- Quizzes typically conducted in-class interactively
- Quiz consists of practice exam questions
- Test taking tip provided before each quiz
- Grades for quizzes do not count towards your final grade
- Taking quizzes counts toward participation score
- Each quiz includes <u>additional</u> terminology, acronyms and material for you to research and study on your own

MIS5206 Unit#2	Your Name	

- 1. When you send an e-mail message, the message goes directly to the person listed in the " $\mbox{To:"}$ box.
- A. True B. False
- 2. Junk e-mail, as in mass mailings, is annoying but harmless
 - A. True B. False
- The best way to avoid viruses is to not open unexpected e-mail attachments from unknown sources.
 - A. Tr
- Messages that appear more than once in your e-mail box may be more suspect of carrying a virus.
 - A. True
 - B. False
- 5. Which of the following file types should never be opened?
 - A. .EXE Executable File
 - B. .BAT Batch Processing
 - C. .VBS VBScript Script File
 - _D. All of the abox

Weekly Cycle

When	Actor	Task	Туре
Thursday	Instructor	Post reading questions	
Sunday 11:59 PM	Student	Post answers to reading questions	Assignment
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Wednesday	All of Us	Class meeting	Participation
Thursday or Friday	Instructor	Post Wrap-up notes	

Next...

Week	Assignment Topics			
1 🗸	Intro	duction t	o MIS5206	
1	Unde	rstandin	g an Organization's Risk Environment	
2	Case	Unit	Readings	
		1	 Vacca Chapter 1 "Information Security in the Model Vacca Chapter 2 " Building a Secure Organization" NIST Reading 1: "Framework for Improving Critical Cybersecurity" ISACA Risk IT Framework, pp. 1-30 	
	,	Ž	 Case Study 1: Snowjall and a Stolen Laptop Vacca Chapter 24 "Information Security Essentials Protecting Mission-Critical Systems" 	for IT Managers:

- 1. Do ITACS students represent information security vulnerabilities to the University, each other, or both? Explain the nature of the vulnerabilities
- 2. Is information security a technical problem, a business problem that the entire organization must frame and solve, or both? Explain your answer
- 3. What challenges are involved in performing a quantitative information security risk analysis?

Agenda

- ✓ Course objectives
- ✓ Instructor
- ✓ Class topics and schedule
- ✓ Textbook and readings
- ✓ Grading
- ✓ Assignments
 - ✓ Readings
 - ✓ Answering questions
 - ✓ Case studies
- ✓ Participation
- ✓ Team project
- ✓ Exams
- ✓ quizzes
- ✓ Next

Protecting Information Assets Week #1a