MIS5206 Protection of Information Assets Unit #1

Agenda

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

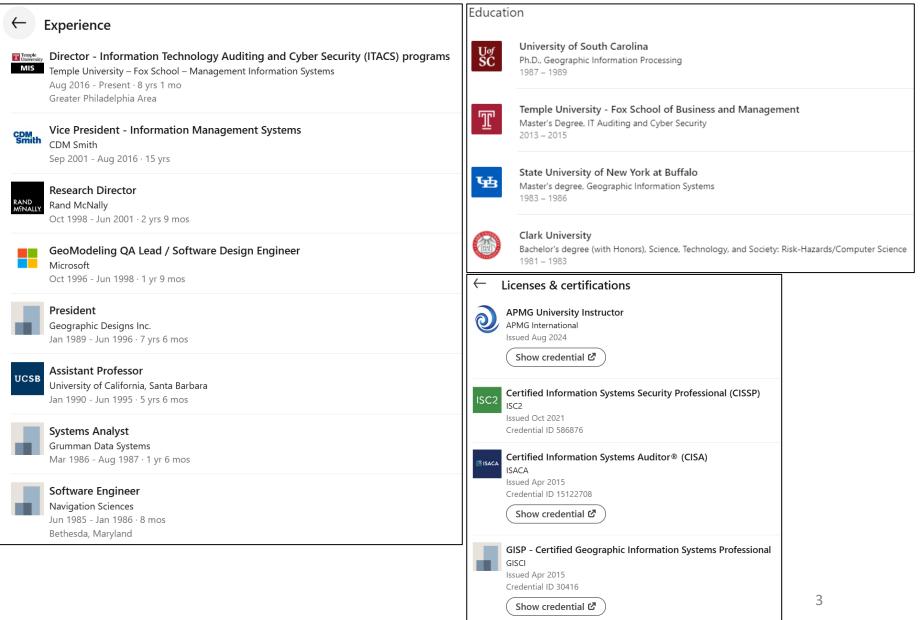
Instructor



David Lanter

Director - Information Technology Auditing and Cyber Security Programs

Philadelphia, Pennsylvania · 500+ connections · Contact info



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

MANAGEMENT INFORMATION SYSTEMS				Protection of Information Assets MIS 5206.001 = Fall 2024 = David Lanter		
HOMEPAGE	INSTRUCTOR	SYLLABUS	SCHEDULE	DELIVERABLES		
Welcome					WEEKLY DISCUSSIONS	
Wel	come!				 Unit 01: Understanding an Organization's Risk Environment (4) 	
AUGUST 4, 20	D24 BY DAVID LANTER	R (EDIT)			> Welcome (1)	
In this cou	irse you will lear	n key concepts	and componer	its necessary for protecting the		
confidenti	ality, integrity an	d availability (C	A) of information	on assets. You will gain an		
understan	iding of the impo	ortance and key	techniques for	managing the security of information		
assets inc	luding logical, pl	hysical, and env	ironmental sec	urity along with disaster recovery and		
business o	continuity.					
The first h	alf of the course	, leading up to t	he mid-term e	xam, will focus on information security	/	
risk identif	ication and man	agement. The s	econd half of t	he class will cover the details of		
security th	reats and the m	itigation strateg				

Course Objectives

- 1. Gain an overview of the nature of information security vulnerabilities and threats
- 2. Learn how information security risks are identified, classified and prioritized
- 3. Develop an understanding of how information security risks are managed, mitigated and controlled
- 4. 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

MIS5206 Section 001	Syllabus	Page
MIS 5206 – Protect	ion of Information Assets	i (3 Credit Hours)
	Fall 2024	
Instructor		
David Lanter		
Office: Speakman Hall I	Room 206C, and online via Zoon	1
Office Hours: Before a	nd after class and by appointme	nt
Email: <u>David.Lanter@ter</u>	<u>nple.edu</u>	
e-profile: <u>https://comm</u>	unity.mis.temple.edu/dlanter/	
Class Format: In-person		
Class Meetings: Wednesday	rs 9:00am – 11:20am	
Where: Alter Hall, Room 405		
Website: https://community.mis	.temple.edu/mis5206sec001fall2024/	
Canvas: https://templeu.instructu	ire.com/courses/145468	
Canvas. <u>mips.//templeu.instructi</u>	<u>are.com/courses/14J408</u>	

Course Description

MIS5206 Section 001

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
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Course website and syllabus

MANAGEMENT INFORMATION SYSTEMS					ion of In 5206.701 = Fa	ation Assets David Lanter
HOMEPAGE	INSTRUCTOR	SYLLABUS	SCHEDULE	DELIVERABLES	ZOOM LINK	
Welcome						WEEKLY DISCUSSIONS
Weld	come!					 Unit o1: Understanding an Organization's Risk Environment (4)

> Welcome (1)

AUGUST 4, 2024 BY DAVID LANTER (EDIT)

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Course Objectives

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MIS5206 Section 701	Syllabus	Page 1
MIS 5206 – Protect	ion of Information Asset	ts (3 Credit Hours)
	Fall 2024	
Instructor		
David Lanter		
Office: Speakman Hall	Room 206C, and online via Zoo	m
Office Hours: Before a	nd after class and by appointme	ent
Email: <u>David.Lanter@ter</u>	<u>nple.edu</u>	
e-profile: <u>https://comm</u>	<u>nunity.mis.temple.edu/dlanter/</u>	
Class Format: Online		
Class Meetings: Wednesday	vs 5:30pm – 8:00pm	
Where: Online via Zoom		
Website: <u>https://community.mis</u>	s.temple.edu/mis5206sec701fall2024	<u>4/</u>
Canvas: <u>https://templeu.instruct</u>	ure.com/courses/145469	

Course Description

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Class topics and schedule

Unit	Assignment Topics	Date
1	Introduction to MIS5206	Δυσ 28
1	Understanding an Organization's Risk Environment	Aug. 28
2	Case Study 1: Snowfall and a stolen laptop	Sept. 04
2	Data Classification Process and Models	3ept. 04
3	Risk Evaluation	Sep. 11
4	Case Study 2: Autopsy of a Data Breach: The Target Case	Sep. 18
5	Creating a Security Aware Organization	Sep. 25
6	Physical and Environmental Security	Oct. 02
7	Midterm Exam	Oct. 07
8	Case Study 3: A Hospital Catches the "Millennium Bug"	Oct. 16
9	Business Continuity and Disaster Recovery Planning	Oct. 23
10	Network Security	Oct. 30
11	Cryptography, Public Key Encryption and Digital Signatures	Nov. 06
12	Identity Management and Access Control	Nov.13
13	Computer Application Security	Nov. 20
15	Team Project Presentations	NOV. 20
	Fall Break - Thanksgiving	Nov 28
14	Team Project Presentations	
14	Review	Dec. 04
15	Final Exam	Dec. 11

Class topics and schedule

MANAGEMEN	T INFORMATION SYST	TEMS			ction of Infor S 5206.001 = Fall 202	rmation Assets 24 David Lanter
HOMEPAGE	INSTRUCTOR	SYLLABUS	SCHEDULE	DELIVERABLES	ZOOM LINK	
	#1: Un			N	Unit #1: Understanding an Organization's Risk Environment	WEEKLY DISCUSSIONS
•	anizatio		· —····		Unit #2: Case Study 1 – Snowfall and stolen laptop	 Unit o1: Understanding an Organization's Risk Environment (4)
Read the	following:				Unit #2: Data Classification Process and Models	> Welcome (1)
	a Chapter 1 "Info a Chapter 2 "Buil		, ,	n Enterprise"	Unit #3: Risk Evaluation	
 NIST 	Reading 1: "The A "Risk IT Frame	NIST Cybersec	0		Unit #4 Case #2: Autopsy of a Data Breach: The Target Case	
	e Week (Unit) 2:				Unit #5: Creating a Security Aware Organization	
Unit • Post	your answers to #2 by the due da your answers to Weekly Cycle sch	ate according to the case study	the Weekly Cy questions in Ca	cle schedul	Unit #6: Physical and Environmental Security	
Post to thPost	your comments e Weekly Cycle s	on your fellow schedule in the	students' poste Syllabus page	7	ne due date according kly Cycle schedule in	

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<text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text>	Bonnie IX Singletov, Ph.3. OKA, OBZT, OTP-DPA, e an anochte-primary of information pathens (5) at	What Every Backup and	Doomoru	Should Know About		
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<complex-block></complex-block>	share your thoughts.	be to a remote location via letomet.) If an enterprise the alconstantioned princi backups the conductor to a ord of work and endofor daily, workly and monthly known as "grandiate-tak the ent concerns is wh precess is rallable Thereits backups methodoles or m	the cloud ii.z., the is backing up to motion, low recommends that different media for omth backaps (this set of backaps is ber-con?). other the backaps re, upon using a new denolose, management	Obviously, this plan is much more involved than simply making a backup of data and being adults to nearest in Effectively when mesosang in shorts the infraversity when more any strate about the infraversiteries comparing strategies approximately and a strategies and a strategies systems documentation and comparer supplies could be involved. The prescipies of dovidoping a ECSYSIP	e	
		should provide a means to to-ensure that the process of the data onto the target Another concern is who named. If it is stored oneits	test the data alterward is actually recording all backup device, see the backup is and if the entity	include a step to identify the critical applicate and rank them in importance of operations. I list becomes strategically valuable if ever not in providing the recovery team with a bloopti of how to restore application software.	ons Dás ásd ást	FG
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Disaster Recovery and

Textbook	Computer and Information Security Handbook - Third Edition, 2017, John R. Vacca,
	Elsevier, Inc. ISBN: 978-0-12-803843-7 Available online via Temple University Libraries
ISACA	ISACA Reading 1: ISACA Risk IT Framework
	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",
SANS	SANS Reading 1: "The Importance of Security Awareness Training"
	SANS Reading 2: <u>"Making Security Awareness Work for You"</u>
	SANS Reading 3: "Implementing Robust Physical Security"
	SANS Reading 4: "An Overview of Cryptographic Hash Functions and Their Uses"
	SANS Reading 5: "The Risks Involved With Open and Closed Public Key
	Infrastructure"
	SANS Reading 6: "Assessing Vendor Application Security A Practical
	Way to Begin"
	SANS Reading 7: "Application Development Technology and Tools: Vulnerabilities and
	threat management with secure programming practices, a defense in-depth approach"
FIPS	FIPS Reading 1: "Standards for Security Categorization of Federal Information and
	Information Systems"
NIST	NIST Reading 1: "The NIST Cybersecurity Framework (CSF) 2.0"
	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/1196217
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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THIRD EDITION		via Temple University Libraries
	ISACA	ISACA Reading 1: ISACA Risk IT Framework
COMPUTER		ISACA Reading 2: "Disaster Recovery and Business Continuity Planning: Testing an
		Organization's Plans"
AND INFORMATION		ISACA Reading 3: "What Every IT Auditor Should Know About Backup and Recovery",
SECURITY	SANS	SANS Reading 1: "The Importance of Security Awareness Training"
		SANS Reading 2: "Making Security Awareness Work for You"
HANDBOOK		SANS Reading 3: "Implementing Robust Physical Security"
12-19410/CP101		SANS Reading 4: "An Overview of Cryptographic Hash Functions and Their Uses"
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**************************************		Infrastructure"
111111111111111111111111111111111111111		SANS Reading 6: "Assessing Vendor Application Security A Practical
THE INTERNET SCIECE BELLED		Way to Begin"
0534 CDF2803-00534 C		SANS Reading 7: "Application Development Technology and Tools: Vulnerabilities and
6C7./-		threat management with secure programming practices, a defense in-depth approach"
C882	FIPS	FIPS Reading 1: "Standards for Security Categorization of Federal Information and
1033 05600 10E24E8 0 07 160921		Information Systems"
1025026822308400A	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
201		Response to Security Concerns"
John R. Vacca	Harvard	2 case studies and 1 reading are available in the course pack for purchase from HBP:
	Business	https://hbsp.harvard.edu/import/744826
	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"



	FEATURE	
Business (er Recovery and Continuity Planning n Organization's Plans	g:
By Yusufali	F. Musaji, CISA, CGA, CISSP	
Tommie W. Singleton, Ph.D., CISA, COEFF, CITP, CPA, is an associate professor of information systems (S) at	What Every IT Auditor S Backup and Recovery	Should Know About
the University of Alaboran at Birmingham (USA), a Manhail S Soleita and a Simcdor of the Forenaic Accounting Program. Pilor to obtaining his doclorate in accountancy from the University of Minalacopi (USA) in 1995, Singleton was	All entities that use IT and data in their operations have a need for a backup and recovery plan. The plan should enable the entity to recover lost data and to recover computer operations from a loss of data. At the low or add need, the entity may experience a data loss (e.g., corrupted data) and simply need to restore a backup of	suffers a pandemic event such as a fire, the event would destroy the operational data and the backup data. Thus, the backup principle for storage is to provide a location that is at a safe distance from the entity's kacation. The cloud automatically provides this element. Additionally, management should provide a
president of a small, value- added dealer of accounting 15 using microscomputers. Singlethnis ables a scholar- in-residence for IT audit and terminic accounting at Carr Riggs Ingram, a large medioral active accounting	data. At the high end of need, the entity may experience loss of computer operations and more, 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 TT and data to conduct	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
regional public accounting firm in the subheastern US in 1990, the Alabama Society of CPAs awarded Singleton the 1998–1999 Inconstitve User of Technology Anant, Singleton is the ISACA accodemic advocate at the University of Alabama at Birmichen Hie articles on	business, operate solely ordine (occumence) and operate 24/7. More than likely, all Fortune 1.000 enterprises are at a high frisk; 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 buckup and recovery plan and	broad, adverse effect on the computer systems of the entity (figure 1). This part of the plan is commonly called a business continuity plan (BCP) or disaster recovery plan (DRP). The adverse event code be system-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
toud, firf8, if auditing and if governance have appeared in numerous publications. Do you have something	to provide some guidance for conducting an IT audit for backup and recovery. DATA Management should provide for a means to back up relevant data on a regular basis. The	systems and data. Figure 1—Recovery Principles • Identify and rank critical applications. • Create a recovery learn with roles and responsibilities.
Visit the Jay about this article? Visit the Jayraid pages of the ISACA web site (www.saca. org/ournal, find the article, and choose the Comments tab to share your thoughts.	principle for regular data backups is to back up data daily. That backup could be to media ($e_{a,c}$ page or external hard drive), or it could be to a remote location via the cload (e_{a} , the Internet). If an enterprise is backing up to media, the aforementioned principle recommode that backups be conducted to a different media for end-of-work and end-of-menth backups (this daily, workly and monthly set of backups is known as "grandither-future-on").	Provide a backup for all essential component of compare groups that and the effect of the stating of the plane. The effect of the plane is much more involved these 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 system (15%), applications and data. Even
Go directly to the article:	The next concern is whether the backup 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 accularly recording all of the data onto the target backup device. Another concern is where the backup is stored. If it is stored onsite and if the entity	systems documentation and computer supplies could be involved. The principles of developing a BCP/DRP include a map to identify the critical applications and rank them in importance of operations. This list becomes strategically valuable if ever meeded in providing the recovery team with a bhaeprint of how to restore application software.

ISACA JOURNAL VOLUME 6, 201

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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ISACA	ISACA Reading 1: ISACA Risk IT Framework
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FIPS	FIPS Reading 1: "Standards for Security Categorization of Federal Information and
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Misc.	Case Study 3: "A Hospital Catches the "Millennium Bug"

Textbook and readings		
Interested in learning more about security?	Interested in learning more about security?	
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 trained excuring-water escurity available escurity available and the security available end of the posters. These methods can help ensure employees have a solid understanding of company security policy, procedure and best practices.	SANS Institute InfoSec Reading Room This paper is from the SANS Institute Reading Room alte. Repositing is not permitted without express written permission.	

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MobileIron	EMM Strategy on the right track?	TAKE THE	SSESSMENT
	Know your security risks.		

Making Security Awareness Efforts Work for You

Interested in learning more about security?



Build y breach

SANS Institute InfoSec Reading Room osting is not permitted without express written permission

Implementing Robust Physical Security

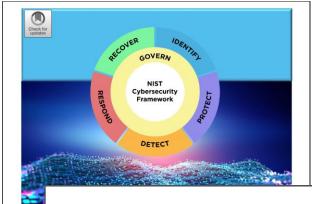
As the world of computer technology continues to grow, becomes increasingly competitive and vulnerable to malicious attacks, every business must more seriously consider 11 (Information Technology) security as a high priority. TI security has become increasingly important over the past filteren varies due to the implementation of LANS (Local Area Networks), WANS (Wide Area Networks) and the Internet, al which provide a means of exploitation from ounitorized users. The Information presented provides insight and direction...

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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. Bemein, Jr., Director



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

What is the purpose of the guidelines?	The decision sequence is organized using the following
Many public, private, and non-profit organizations	rationale:
originate and publicly disseminate geospatial data.	I. Do the geospatial data originate in the organization?
Dissemination is essential to the missions of many	If not, the organization is instructed to follow the
organizations and the majority of these data are	instructions related to safeguarding that accompany
appropriate for public release. However, a small portion of	the data.
these data could pose risks to security and may therefore require safeguarding. Although there is not much publicly	II. If the geospatial data originate in the organization,
available geospatial information that is sensitive (Baker	do the data need to be safeguarded? This decision is
and others, 2004, page 123), managers of geospatial	based on three factors:
information have safeguarded information using different	 Risk to security: Are the data useful for selecting
decision procedures and criteria.	one or more specific potential targets, and/or for

National Institute of Standards and Technology U.S. Department of Commerce

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

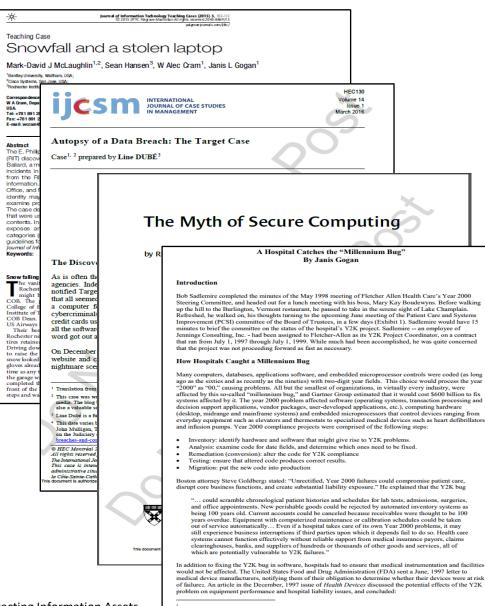
Special Publication 800-122

Recommendations of the National Institute of Standards and Technology

Erika McCallister Tim Grance Karen Scarfone

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	
	via Temple University Libraries	
ISACA	ISACA Reading 1: ISACA Risk IT Framework	
	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",	
SANS	SANS Reading 1: "The Importance of Security Awareness Training"	
	SANS Reading 2: "Making Security Awareness Work for You"	
	SANS Reading 3: "Implementing Robust Physical Security"	
	SANS Reading 4: "An Overview of Cryptographic Hash Functions and Their Uses"	
	SANS Reading 5: "The Risks Involved With Open and Closed Public Key	
	Infrastructure"	
	SANS Reading 6: "Assessing Vendor Application Security A Practical	
	Way to Begin"	
	SANS Reading 7: "Application Development Technology and Tools: Vulnerabilities and	
	threat management with secure programming practices, a defense in-depth approach"	
FIPS	FIPS Reading 1: "Standards for Security Categorization of Federal Information and	
	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/744826	
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: " <u>A Hospital Catches the "Millennium Bug</u> "		

Taxthack Computer and Information Security Handbook Third Edition 2017 John P. Vacca



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. ,	HBR Reading 1: "The Myth of Secure Computing (HBR OnPoint Enhanced Edition)"
Misc.	Case Study 3: " <u>A Hospital Catches the "Millennium Bug</u> "

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

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

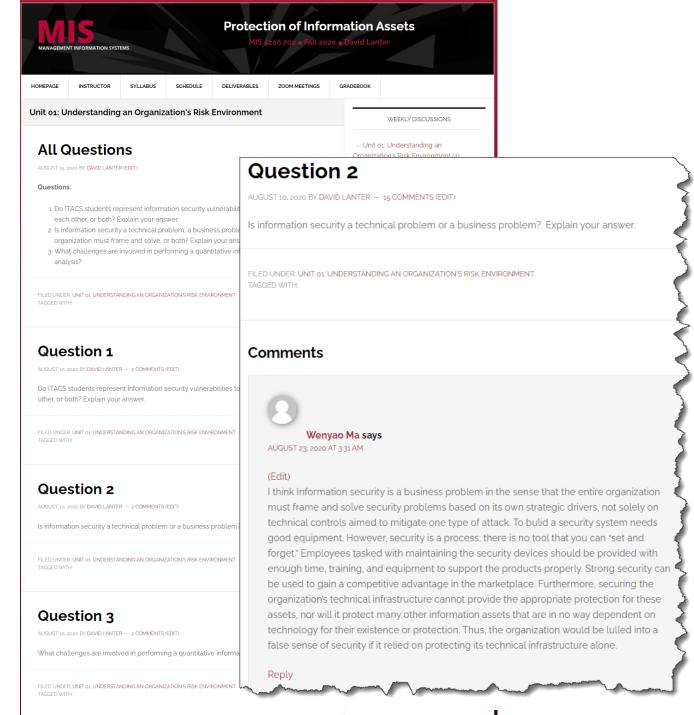
Unit	Readings – Subject to change		
1	 Vacca Chapter 1 "Information Security in the Modern Enterprise" 		
	 Vacca Chapter 2 "Building a Secure Organization" 		
	 NIST Reading 1: "Cybersecurity Framework" 		
	 ISACA Risk IT Framework, pp. 9-30 		
2	Case Study 1: "Snowfall and a Stolen Laptop"		
	 Vacca 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)"		

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		 FIPS Reading 1: "Standards for Security Categorization of Federal
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		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 Identified a formation (DU)"
	2	Identifiable Information (PII)"
	3	Vacca Chapter 25 "Security Management Systems" Vacas Chapter 24 "Biole Managements"
		 Vacca Chapter 34 "Risk Management" ISACA Panding 1: "Bigk IT Framework" np. 21 46
	4	 ISACA Reading 1: "Risk IT Framework" pp. 31-46 Case Study 2: "Autopsy of a Data Breach: The Target Case"
	- 4 - 5	
	5	 Vacca Chapter 27 (online) "Information Technology Security Management"
		 Vacca Chapter 33 "Security Education, Training and Awareness"
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		 SANS Reading 1: The importance of security Awareness Work for You"
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		 Vacca Chapter 69 "Physical Security Essentials"
		 SANS Reading 3: "Implementing Robust Physical Security"
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		• Vacca Chapter 15 "Intranet Security"
		Vacca Chapter 16 (online) "Local Area Network Security" Vacca Chapter 73 "Intrusion Devention and Detection Systems"
	11	Vacca Chapter 72 "Intrusion Prevention and Detection Systems"
	11	 Vacca Chapter 46 (online) "Data Encryption" Vacca Chapter 47 "Satellite Encryption"
		 Vacca Chapter 47 "Satellite Encryption" Vacca Chapter 48 "Public Key Infrastructure"
I		 Vacca Chapter 51 "Instant-Messaging Security"
		 SANS Reading 4: "An Overview of Cryptographic Hash Functions and
		Their Uses"
		• SANS Reading 5: "The Risks Involved with Open and Closed Public Key
		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"
		Vacca Chapter 59 "Identity Theft – Second Part"
	13	• SANS Reading 6: "Assessing Vendor Application Security <u>A</u> Practical
		Way to Begin"
		• SANS Reading 7: "Application Development Technology and Tools:
		Vulnerabilities and threat management with secure programming
	L	practices, a defense in-depth approach"

2. Answer reading questions

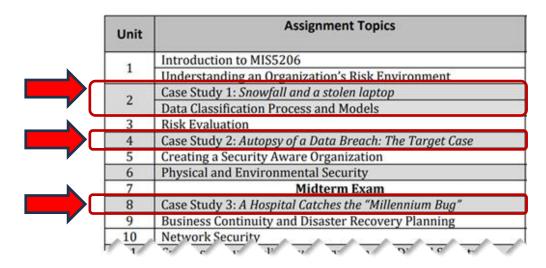
Questions are posted on the MIS5214 class web site questions organized by Unit # for the readings. You are expected to post your answers to the questions as you complete each unit.

- 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



Weekly Cycle

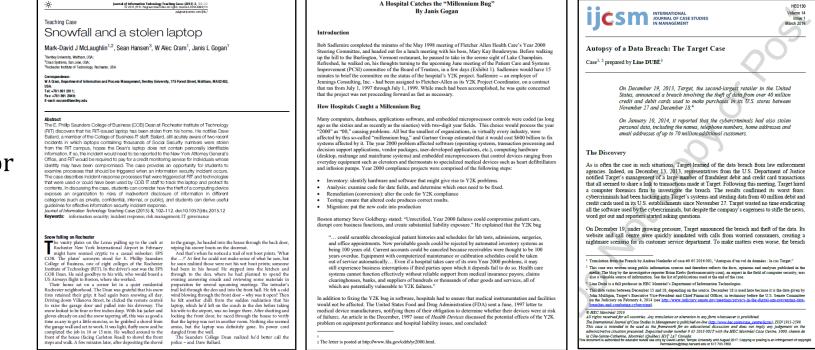
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3. Three case studies

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.

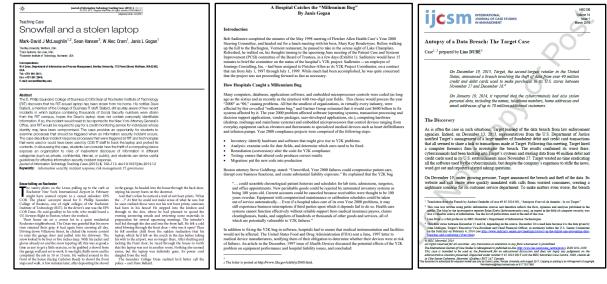


i. <u>Individual preparation</u> is done as homework assignments that will prepare you to contribute in group discussion meetings. It will prepare you to learn from what others say.

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...)



- <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...)

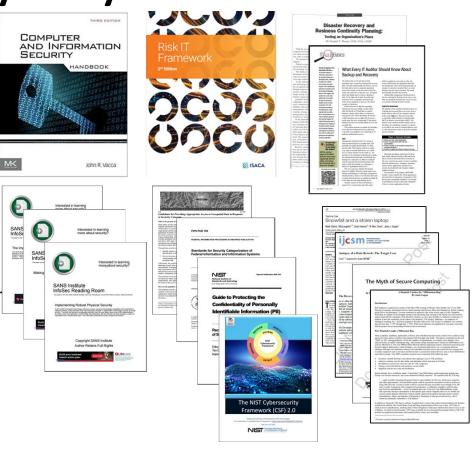
BU-MIS-5206-701-31209-202436 > Assignments

2024 Fall Home	Q Search		-001-41832-202436 > Assignments
Assignments		Account Home	Case Study 1: "Snowfall and a stolen laptop" Due: Tue Sep 3, 2024 11:59pm
Grades	 Upcoming Assignments 	Assignments Dashboard Crades People	p Add Comment
People Syllabus	Case Study 1: "Snowfall and a stolen laptop" Available until Sep 4 at 11:30pm Due Sep 3 at 11:59pm	Courses People Syllabus Calendar Quizzes	Available: Aug 18, 2024 9:00am until Sep 4, 2024 11:30pm Details
Quizzes Library	Case Study 2: "Autopsy of a Data Breach: The Target Case" Available until Sep 18 at 11:00pm Due Sep 17 at 11:59pm	of a Data Breach: The Target Case" Library Read Case 1: "Snowfall and the stolen laptop" of a Data Breach: The Target Case" Ibbox Collaborations Note: Case studies are available in the course pack for purchase from Harvard Busin m Due Sep 17 at 11:59pm -/3 pts Panopto Video Answer the following 3 questions and post your analysis (following the format des Pal Catches the 'Millennium Bug' Poll Everywhere 1. Consider Ash Rao's role as Dean of the Saunders College of Business. How imp machine? M Due Oct 15 at 11:59pm -/3 pts Attendance 2. Evaluate (not just list) the steps Dave Ballard and Nick Francesco took in respo good job in each area? If so, why was it good. If not, what could they have dor Zoom 3. Assume you are tasked with designing a new policy that highlights information	• Note: Case studies are available in the course pack for purchase from Harvard Business Publishing: https://hbsp.harvard.edu/import/1196217
Collaborations Panopto Video	Case Study 3: "A Hospital Catches the 'Millennium Bug' Available until Oct 16 at 11:30pm Due Oct 15 at 11:59pm -/3 pts		 Consider Ash Rao's role as Dean of the Saunders College of Business. How important is his laptop to him? What important or sensitive information might he have on that machine? Evaluate (not just list) the steps Dave Ballard and Nick Francesco took in response to Dean Rao's email informing them that his laptop had been stolen. Did they do a good job in each area? If so, why was it good. If not, what could they have done better? Assume you are tasked with designing a new policy that highlights information security best practices related specifically to mobile devices at RIT, including laptops, smartphones, and tablets. The new policy should supplement RIT's Information Security Policy and Acceptable Use Policy (see the case's Exhibits 4 and 5). What practices
Poll Everywhere		VoiceThread	would you recommend? How could you make staff aware of the policy and encourage their compliance?
Attendance			Format: Your analysis should be single-spaced pages using 11-point Times New Roman font with one-inch margins, and the entire document should be limited to 3 pages (including a diagram if appropriate for answering the question.) Do not prepare a separate cover page, instead put your name, the class section number (e.g. MIS5206.001 or MIS5206.701), and the case name in the top-left corner of the header. Add page numbers in the footer of the document. Your assignment should be saved as a PDF
Zoom			formatted file to Canvas, your PDF file should be named Case2-YourName.pdf
VoiceThread			

MIS 5206 Protecting Information Assets

- 1. Readings
- 2. Answers to questions

3. Case study analyses



Unit	Readings – Subject to change
1	 Vacca Chapter 1 "Information Security in the Modern Enterprise"
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Readings - Subject to change

Unit

Weekly Cycle

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Thursday or Friday	Instructor	Post Wrap-up notes	

Deliverables

MANAGEMEN	T INFORMATION SYST	EMS		Protection of MIS 5206.001	f Informatio Fall 2024 = Davi	
MEPAGE	INSTRUCTOR	SYLLABUS	SCHEDULE	DELIVERABLES		
				Weekly Deliverables	"In the News" Articles	
"In t	he New	's" Arti	cles	Case Studies	Answers to Reading Discussion Questions	WEEKLY DISCUSSIONS
Each wee	k resear <mark>c</mark> h, identii	fy, write a sum	mary an article v	Team Project	Discussion Questions	01: Understanding an
the Inform week.	nation Security are	ena. An ideal ar	ticle would be t	tied thematically to the topi	Comments on Reading Discussion Question an Other Students' Answer	ation's Risk Environment (4)
Post a link class	to the article and	d your summar	y of the article.	Be prepared to discuss the a		Welcome (1)
The dead	line for posting ca	an be found in t	the Weekly Cyc	le in the Syllabus		

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 62: 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 TAGGED WITH:

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)

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
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Thursday or Friday	Instructor	Post Wrap-up notes	

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



(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

(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

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2. "In the News" articles



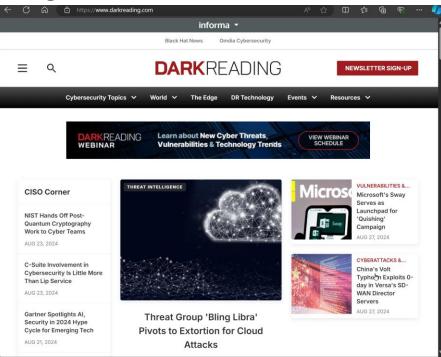
https://www.theregister.co.uk/security/ https://thehackernews.com/ https://cybernews.com/ https://krebsonsecurity.com/

MIS 5206 Protecting Information Assets

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

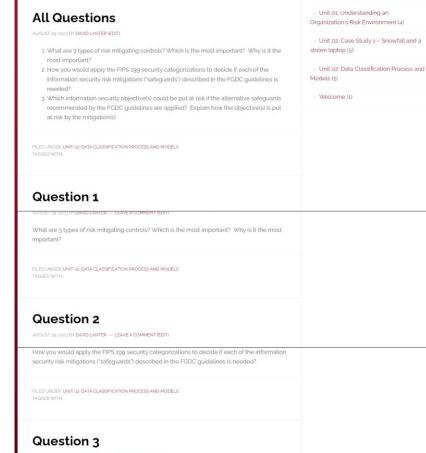


2. "In the News" articles



In the News

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



SYLLABUS SCHEDULE DELIVERABLES

Protection of Information Assets

W/FEKLY DISCUSSIONS

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 TAGGED WITH:



In the News

HOMEPAGE

INSTRUCTOR

Unit 02: Data Classification Process and Models

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

MIS 5206 Protecting Information Assets

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

- 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

(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 school's information security, since student always connect to the university's network all the time. On the contrary, once school's 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
- During Units #13 and #14 each team will have 15 minutes to present their results of working on the topic, following by a brief session of questions and answers (Q&A) from the other teams
- 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. 7	Midterm
Dec. 11	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

MIS	5206 Unit#2 Your Name
	/hen you send an e-mail message, the message goes directly to the person listed the " To:" box.
	A. True B. False
2. Ju	unk e-mail, as in mass mailings, is annoying but harmless.
	A. True B. False
	he best way to avoid viruses is to not open unexpected e-mail attachments om unknown sources.
	A. True B. False
	iessages that appear more than once in your e-mail box may be more suspect of arrying a virus.
	A. True B. False
5. W	/hich of the following file types should never be opened?
	AEXE - Executable File BBAT - Batch Processing CVBS - VBScript Script File
	D. All of the above

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Weel	c	Assignment Topics
1 1	/ Intro	oduction to MIS5206
	Unde	erstanding an Organization's Risk Environment
2	Unit	Readings – Subject to change
	1	• Vacca Chapter 1 "Information Security in the Modern Enterprise"
		Vacca Chapter 2 "Building a Secure Organization"
		NIST Reading 1: "Cybersecurity Framework"
		ISACA Risk IT Framework, pp. 9-30
	2	Case Study 1: "Snowfall and a Stolen Laptop"
		Vacca Chapter 24 "Information Security Essentials 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
- \checkmark Textbook and readings
- ✓ Grading
- ✓ Assignments
 - ✓ Readings
 - ✓ Answering questions
 - ✓ Case studies
- ✓ Participation
- ✓ Team project
- ✓ Exams
- ✓ quizzes
- ✓ Next

Protecting Information Assets Week #1a