

DOCUMENT N: COURSE AND PROGRAM DEVELOPMENT COVER SHEET

See Course and Program Development Policy and Procedures for Instructions

SCHOOL: LAW <input type="checkbox"/> MSB <input checked="" type="checkbox"/> YGCLA <input type="checkbox"/>	Contact Name: Darlene Smith	Phone: x4996
DEPARTMENT / DIVISION: Accounting & MIS		
SHORT DESCRIPTION OF PROPOSAL (state name of action item 1-20 and course name, code & number / program affected):		
INSS 703: INFORMATION SECURITY MANAGEMENT (New required course for Business Security specialization in the MBA program)		
PROPOSED SEMESTER OF IMPLEMENTATION: Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Year: 2007		

Box 1: TYPE OF ACTION	ADD(NEW) <input checked="" type="checkbox"/>	DEACTIVATE <input type="checkbox"/>	MODIFY <input type="checkbox"/>	OTHER <input type="checkbox"/>
Box 2: LEVEL OF ACTION	Non-Credit <input type="checkbox"/>	Undergraduate <input type="checkbox"/>	Graduate <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

Box 3: ACTION ITEM (check appropriate boxes)		DOCUMENTS REQUIRED (see box 4 below)	IMPACT REVIEWS (see box 5 on back)	APPROVAL SEQUENCE (see box 6 on back)
<input type="checkbox"/>	1. Experimental Course ¹	NOP	a, c, e	AC
<input type="checkbox"/>	2. Course Title	NO		ABCD
<input type="checkbox"/>	3. Course Credits	NO		ABCD
<input type="checkbox"/>	4. Course Number	NO		ABCD
<input type="checkbox"/>	5. Course Level	NO		ABCD
<input type="checkbox"/>	6. Pre & Co-Requisite	NO		ABCD
<input type="checkbox"/>	7. Course Description	NOP		ABCDEF
<input checked="" type="checkbox"/>	8. New Course	NOP		ABCDEF
<input type="checkbox"/>	9. Deactivate a Course	NO		ABCDEF
<input type="checkbox"/>	10. Program Requirements	NO	b, c, d, e	ABCDEF
<input type="checkbox"/>	11a. UG Specialization (24 credits or less)	NO	a, b, c, d, e	ABCDEF
<input type="checkbox"/>	11b. Masters Specialization (12 credits or less)	NO	a, b, c, d, e	ABCDEF
<input type="checkbox"/>	11c. Doctoral Specialization (18 credits or less)	NO	a, b, e	ABCDEF
<input type="checkbox"/>	12. Closed Site Program	NOT	e	ABCDHIK
<input type="checkbox"/>	13. Program Suspension ⁹	NO,5	a, e	ABCDEGIK
<input type="checkbox"/>	14a. Certificate Program (ug/g) exclusively within existing degree program	NO	a, c, e	ABCDEFHIK
<input type="checkbox"/>	14b. Certificate Program (ug/g) where degree programs do not exist or where courses are selected across degree programs (12 or more credits)	NOQR, 6	a, c, e	ABCDEFHJL
<input type="checkbox"/>	15. Off-Campus Delivery of Existing Program	NO, 4	a, b, c, e	ABCDHIL
<input type="checkbox"/>	16a. UG Concentration (exceeds 24 credit hours)	NO, 5	a, c, d, e	ABCDEFHJL
<input type="checkbox"/>	16b. Masters Concentration (exceeds 12 credit hours)	NO, 5	a, c, d, e	ABCDEFHJL
<input type="checkbox"/>	16c. Doctoral Concentration (exceeds 18 credit hours)	NO, 5	a, c, d, e	ABCDEFHJL
<input type="checkbox"/>	17. Program Title Change	NO, 5	a, c, d, e	ABCDEFHJL
<input type="checkbox"/>	18. Program Termination	NO, 10	d, e	ABCDEFHIK
<input type="checkbox"/>	19. New Degree Program	NOQR, 3,8	a, c, d, e	ABCDEFHJL
<input type="checkbox"/>	20. Other	Varies	Varies	Varies

Box 4: DOCUMENTATION (check boxes of documents included)			
<input checked="" type="checkbox"/>	N. This Cover Sheet	<input type="checkbox"/>	Q. Full 5-page MHEC Proposal
<input checked="" type="checkbox"/>	O. Summary Proposal	<input type="checkbox"/>	R. Financial Tables (MHEC)
<input checked="" type="checkbox"/>	P. Course Definition Document	<input type="checkbox"/>	S. Contract
<input type="checkbox"/>		<input type="checkbox"/>	T. Other

- Approval of experimental course automatically lapses after two offerings unless permanently approved as a new course.
- Codes: a) Library Services (Langsdale or Law) b) Office of Technology Services c) University Relations d) Admissions
- Letter of Intent is required by USM at least 30 days before a full proposal can be submitted. Letter of Intent requires only the approval of the dean and the provost and is forwarded to USM by the Office of the Provost.
- One-page letter to include: Program title & degree/certificate to be awarded; resources requirements; need and demand; similar programs; method of instruction; and oversight and student services (MHEC requirement)
- One-page letter with description and rationale (MHEC requirement)
- One or two-page document that describes: centrality to mission; market demand; curriculum design; adequacy of faculty resources; and assurance program will be supported with existing resources. (MHEC requirement)
- Learning objectives, assessment strategies; fit with UB strategic plan
- Joint Degree Program or Primary Degree Programs require submission of MOU w/ program proposal. (MHEC requirement)
- Temporary suspension of program to examine future direction; time not to exceed two years. No new students admitted during suspension, but currently enrolled students must be given opportunity to satisfy degree requirements.

DOCUMENT N: COURSE AND PROGRAM DEVELOPMENT COVER SHEET (Page 2 of 2)

SCHOOL: LAW <input type="checkbox"/> MSB <input checked="" type="checkbox"/> YGCLA <input type="checkbox"/>
SHORT DESCRIPTION OF PROPOSAL (state name of action item 1-20 and course name, code & number / program affected):
A new required course INSS 703 INFORMATION SECURITY MANAGEMENT (New course in the Business Security specialization for the UB-Towson joint MBA program)

10. Provide:
- a. evidence that the action is consistent with UB mission and can be implemented within the existing program resources of the institution.
 - b. proposed date after which no new students will be admitted into the program;
 - c. accommodation of currently enrolled students in the realization of their degree objectives;
 - d. treatment of all tenured and non-tenured faculty and other staff in the affected program;
 - e. reallocation of funds from the budget of the affected program; and
 - f. existence at other state public institutions of programs to which to redirect students who might have enrolled in the program proposed for abolition.
11. University Council *review* (for a recommendation to the President or back to the Provost) shall be limited to curricular or academic policy issues that may potentially affect the University's mission and strategic planning, or have a significant impact on the generation or allocation of its financial resources.

Box 5: IMPACT REVIEW	SIGNATURES (see procedures for authorized signers)	DATE
a. Library <input type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached	Director or designee:	
b. OTS <input type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached	CIO or designee:	
c. University Relations <input checked="" type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached	Director or designee: <i>Gigi Boan / OBlue</i>	<i>5/24/07</i>
d. Admissions <input type="checkbox"/> No impact <input checked="" type="checkbox"/> Impact statement attached	Director or designee: <i>Jean J. Unson</i>	<i>5/30/07</i>
e. Records <input checked="" type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached	Registrar or designee: <i>Richard Maxwell / OBlue</i>	<i>5/29/07</i>

Box 6: APPROVAL SEQUENCE	APPROVAL SIGNATURES	DATE
A. Department / Division	Chair: <i>Alvin M</i>	<i>5/31/07</i>
B. Final faculty review body within each School	Chair: <i>Joe S. Han</i>	<i>5/25/07</i>
C. College Dean	Dean: <i>Susan Zaccaro</i>	<i>5/24/07</i>
D. Provost and Senior Vice President for Academic Affairs	Provost: <i>Linda Randall / OBlue</i>	<i>6/4/07</i>
E. Curriculum Review Committee (UFS subcommittee)	Chair: <i>Marilyn Balligan</i>	<i>6.5.07</i>
F. University Faculty Senate (UFS option)	Chair:	
G. University Council (see # 11 above)	Chair:	
H. President	President:	
I. Board of Regents – notification only		
J. Board of Regents – approval		
K. MHEC – notification only		
L. MHEC – approval		
M. Middle States Association notification	Required only if the mission of the University is changed by the action	

5/30/07

Curriculum changes may impact recruitment literature.

DOCUMENT O: SUMMARY PROPOSAL

See Course and Program Development Policy and Procedures for Instructions

SCHOOL: LAW <input type="checkbox"/> MSB <input checked="" type="checkbox"/> YGCLA <input type="checkbox"/>	Contact Name: Darlene Smith	Phone: x4996
DEPARTMENT / DIVISION: Accounting & MIS		
SHORT DESCRIPTION OF PROPOSAL (state action item 1-23 and course name & number or program affected):		
New course approval: INSS 703: INFORMATION SECURITY MANAGEMENT A new required course to satisfy the business security specialization in the joint UB-Towson MBA program		
PROPOSED SEMESTER OF IMPLEMENTATION: Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Year: 2007		

O-1: Briefly describe what is being requested:

Approval of INSS 703: INFORMATION SECURITY MANAGEMENT to satisfy the business security specialization requirement.

For new courses or changes in existing courses (needed by Registrar)

OLD Title:	Course # / HEGIS Code:	Credits:
NEW Title: Information Security Management	Course # / HEGIS Code: INSS 703	Credits: 3

O-2: Set forth the rationale for the proposal:

Information systems and technology are an integral part of most products and services of the post-industrial society of the 21st century. Organizations have a strong operational dependency on information systems to process the mostly on-line transactions generated by their daily operations. Most organizations would shut down their operations in matter of hours or days if information systems would become unavailable, because information systems "run the business." The security and reliability of information systems are the key factors to keep information available to support business operations. In addition, the volume of transactions on the Web are increasingly important to the success of many businesses. Securing these transactions are even more pressing concern in modern organizations, where E-Commerce is a vital and strategic activity.

This course is a managerial view of information security. It provides brief hands-on experience with technical aspects of security, but it concentrates on planning, risk management, development, specification, informal, cultural and legal aspects of information security management. The pre-requisite for this course is INSS640 - Information Systems in Business.

The course syllabus is attached.

Proposed Course Syllabus (Document P)
Information Security Management

1. Date Prepared: May 12, 2007
2. Prepared by: Al Bento
3. Department: INSS
4. Course Number: 703
5. Course Title: Information Security Management
6. Credit Hours: 3
7. Catalog Description:

Information systems and technology are an integral part of most products and services of the post-industrial society of the 21st century. Organizations have a strong operational dependency on information systems to process the mostly on-line transactions generated by their daily operations. Most organizations would shut down their operations in matter of hours or days if information systems would become unavailable, because information systems "run the business." The security and reliability of information systems are the key factors to keep information available to support business operations. In addition, the volume of transactions on the Web is increasingly important to the success of many businesses. This course is a managerial view of information security. It provides brief hands-on experience with technical aspects of security, but it concentrates on planning, risk management, development, specification, and informal, cultural and legal aspects of information security management.

8. Prerequisites: INSS 640 Information Systems in Business
9. Faculty qualified to teach the course: Al Bento
10. Course Type / Component: lecture / seminar
11. Suggested approximate class size: 30
12. Content Outline:

1. Information security and basic security requirements
2. Models for security specification
3. Cryptography in information security
4. Network security – vulnerabilities
5. Network security - defense mechanisms
6. Formal Information Security and Planning
7. Designing information systems security

8. Risk management for information security
9. Informal aspects of information security
10. Governance of information security
13. Culture and information security
14. Information security standards
15. Legal aspects of information security: HIPAA, SOX, FISMA
16. Computer Forensics

13. Learning Goals:

Students completing this course satisfactorily will be able to:

1. Use basic security checking tools:
 - a. Google hacking
 - b. PGP encryption software
 - c. SuperScan and similar scanning software
2. Use basic security defense tools:
 - a. Firewalls
 - b. Anti-spyware software
 - c. Intrusion Detection Systems (awareness and selection)
3. Identify and characterize the basic security requirements and describe models for security specification.
4. Understand the requirements of formal organization structure for security and security planning at strategic, tactical and operational levels.
5. Understand and use the various risk models to evaluate information security vulnerabilities risk.
6. Understand the informal and cultural (business and organizational) aspects of information security
7. Familiarity with the various security standards for business, government, and international organizations.
8. Familiarity with legal aspects of information security for business and government organizations.
9. Basic understanding of computer forensics, an after-the-fact security incident search and discovery process.

14. Assessment Strategies:

Hands-on application projects, case discussions, assignments and exams.

15. Possible text:

Dhillon, Gurpreet. Principles of IS Security:Text and Cases, Wiley, 2007.

INSS 703 - Information Security Management

Professor Al Bento

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[\[exercises\]](#)[\[cases\]](#)[\[mid-term exam\]](#) [\[final exam\]](#)[\[outline\]](#) [\[WebTycho\]](#)

COURSE DESCRIPTION

Information systems and technology are an integral part of most products and services of the post-industrial society of the 21st century. Organizations have a strong operational dependency on information systems to process the mostly on-line transactions generated by their daily operations. Most organizations would shut down their operations in matter of hours or days if information systems would become unavailable, because information systems "run the business." The security and reliability of information systems are the key factors to keep information available to support business operations. In addition, the volume of transactions on the Web are increasingly important to the success of many businesses. Securing these transactions are even more pressing concern in modern organizations, where E-Commerce is a vital and strategic activity.

This course is a managerial view of information security. It provides brief hands-on experience with technical aspects of security, but it concentrates on planning, risk management, development, specification, informal, cultural and legal aspects of information security management. The pre-requisite for this course is [INSS640 - Information Systems in Business](#).

In the first part of the course (weeks one to five) we study the basic information security concepts and have a hands-on introduction to technical aspects of information security. The second part of the course (weeks six to eleven) covers managerial and informal aspects of information security. Finally, the last part of the course (weeks twelve to fifteen) introduces cultural, standards, legal and forensical aspects of information security.

You will work in a small group to do assignments and discuss and report on selected security cases. All cases are included in the Textbook. You will also take home a mid-term and final exam. Assignments (5) differ from cases (8) in their nature. Assignments are hands-on exercises, while cases are short essay papers (between two to five pages). Both are to be made in groups of 2-3 students and posted as one file per group in the ASSIGNMENTS area of WebTycho. Both the mid-term and the final exams are to be done individually.

We offer other courses with a more technical emphasis such as [INSS753 - Internet and Network Security](#) if you are also interested.

ASSIGNMENTS AND GRADING

Exercises (5)	25%
Cases (8)	40%
Mid-term exam	15%
Final exam	20%

Exercises

The exercises are hands-on use of security tools to provide practical experience with information security software. The assignments are to be done in group and posted on the corresponding ASSIGNMENTS tab in WebTycho, as follows:

1. Google hacking exercise: finding security flaws using the Google search
2. PGP e-mail exercise: using encryption to secure your e-mail communications
3. Scanning exercises: looking for vulnerabilities with automated tools
4. Firewall, IDS exercises: setting basic defense mechanisms
5. Software for legal aspects of IT security: a Web exercise

Cases

The cases are actual situations that allow us to discuss specific information security management issues and topics. The cases are also to be done in group and a final report is to be submitted in the corresponding ASSIGNMENTS tab in WebTycho, as follows (the numbers in parenthesis are the page number of the case in the Textbook):

1. Cases in Computer Crime (349)
2. Developing a Security Policy at M&M (431)
3. Security Management at the Tower (369)
4. Case of a computer hack (325)
5. IS security at Southam Council (356)
6. Computer crime and the demise of Barings Bank (375)
7. Taylor City Police Department security breach (426)
8. Botnet: anatomy of a case (335)

Mid-term Exam

The mid-term exam is an individual exam comprised of modified multiple-choice questions, where you select an answer and explain why you did so, and a few hands-on exercises based on the exercises you did in group.

Final Exam

The final exam is an individual exam comprised of multiple-choice questions, where you select an answer and explain why you did so, and a few essay questions based on your experiences with the cases discussed in class.

TEXTBOOK

Dhillon, Gurpreet Principles of IS Security:Text and Cases, Wiley, 2007. ISBN 13-978-0-471-45056-6.

See also: Book student resource Web site.

Web references:

to be added throughout the semester, in addition to the ones available in the book Web site.

OUTLINE		
Date	Topic	Assignment
01/29	Information security and basic security requirements [1,2]	Google hacking exercise
02/05	Models for security specification [3]	Cases in Computer Crime (349)
02/12	Cryptography in information security [4]	PGP e-mail exercise
02/19	Network security - vulnerabilities [5]	scanning exercises
02/26	Network security - defense mechanisms [5]	firewall, IDS exercises
03/05	Formal Information Security and Planning [6,7]	Developing a Security Policy at M&M (431)
03/12	Designing information systems security [8]	Security Management at the Tower (369)
03/19	Spring Break	
03/26	Mid-term exam	
04/02	Risk management for information security [9]	Case of a computer hack (325)
04/09	Informal aspects and governance of information security [10,11]	IS security at Southam Council (356)
04/16	Culture and information security [12]	Computer crime and the demise of Barings Bank (375)

04/23	Information security standards [13]	Taylor City Police Department security breach (426)
04/30	Legal aspects of information security: HIPAA, SOX, FISMA [14]	Software for legal aspects of IT security : a Web exercise
05/07	Computer Forensics [15]	Botnet: anatomy of a case (335)
05/14	Final Exam	

Note: the numbers in the brackets [], refer to chapters in the Textbook. The numbers between parenthesis () refer to page numbers in the Textbook.

This page is maintained by Al Bento who can be reached at abento@ubalt.edu. This page was last updated on February 8, 2007. Although we will attempt to keep this information accurate, we can not guarantee the accuracy of the information provided.