

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; Management		
SHORT DESCRIPTION OF PROPOSAL (state name of action item 1-20 and course name, code & number / program affected):		
MGMT 770: PLANNING, PREVENTION AND RISK 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 type="checkbox"/>	T. Other
<input checked="" type="checkbox"/>	O. Summary Proposal	<input type="checkbox"/>	R. Financial Tables (MHEC)	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	P. Course Definition Document	<input type="checkbox"/>	S. Contract	<input type="checkbox"/>	

- 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 770: PLANNING, PREVENTION AND RISK 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>Erige Boan / DBLub</i>	<i>5/24/07</i>
d. Admissions <input type="checkbox"/> No impact <input checked="" type="checkbox"/> Impact statement attached	Director or designee: <i>Joan J. Anson</i>	<i>5/30/07</i>
e. Records <input type="checkbox"/> No impact <input type="checkbox"/> Impact statement attached	Registrar or designee: <i>Richard Marrell / DBLub</i>	<i>5/29/07</i>

Box 6: APPROVAL SEQUENCE	APPROVAL SIGNATURES	DATE
A. Department / Division	Chair: <i>William W.</i>	<i>5/31/07</i>
B. Final faculty review body within each School	Chair: <i>Joel A. Krom</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>Judith Randall</i>	<i>6/4/07</i>
E. Curriculum Review Committee (UFS subcommittee)	Chair: <i>Mubuki Gelliza</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; Management		
SHORT DESCRIPTION OF PROPOSAL (state action item 1-23 and course name & number or program affected):		
New course approval: MGMT 770: PLANNING, PREVENTION AND RISK 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 MGMT 770: PLANNING, PREVENTION AND RISK 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: Planning, Prevention and Risk Management	Course # / HEGIS Code: MGMT 770	Credits: 3

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

This course identifies and defines critical infrastructures, and their associated threats and countermeasures. Next, software applications containing risk management tools are mastered and provide skills necessary for the comparison and selection of competing proposals designed to optimize infrastructure protection. Industry-specific studies are performed using risk these management analysis techniques. Contingency and Continuity of Operation Planning (COOP) techniques are also reviewed. Finally, the skills acquired during the course are applied to case studies of selected industrial, service and government organizations, for the purpose of practicing critical infrastructure planning, protection and risk management.

The course syllabus is attached.

Proposed Course Syllabus (Document P)

MGMT 770: Planning, Prevention and Risk Management

1. Date Prepared: May 21, 2007
2. Prepared by: A. Aggarwal
3. Department: Acct & Information Systems
4. Course Number: MGMT 770
5. Course Title: Planning, Prevention and Risk Management
6. Credit Hours: 3

7. Catalog Description:

This course identifies and defines critical infrastructures, and their associated threats and countermeasures. Next, software applications containing risk management tools are mastered and provide skills necessary for the comparison and selection of competing proposals designed to optimize infrastructure protection. Industry-specific studies are performed using risk these management analysis techniques. Contingency and Continuity of Operation Planning (COOP) techniques are also reviewed. Finally, the skills acquired during the course are applied to case studies of selected industrial, service and government organizations, for the purpose of practicing critical infrastructure planning, protection and risk management.

8. Prerequisites: INSS 640, OPRE 504
9. Faculty qualified to teach the course: Aggarwal, Bento, Fowler
10. Course Type / Component: lecture / seminar
11. Suggested approximate class size: 35

12. Content Outline (based on learning goals listed below)

Lecture 1	Course Introduction and Housekeeping Strategies, Origins and Challenges of Critical Infrastructure Protection Lewis, Chapters 1 - 3
Lecture 2	Scale-free Network Theory: looking at critical infrastructure protection from a holistic viewpoint. Lewis, Chapter 4
Lecture 3	Introduction to Model-Based Vulnerability Analysis (MBVA) Lewis, Chapter 5
Lecture 4	Risk Analysis Lewis, Chapter 6
Lecture 5	Applying MBVA to Federal Level 1 Infrastructures – Water and Supervisory Control and Data Acquisition (SCADA) Lewis, Chapters 7 and 8
Lecture 6	Applying MBVA to Federal Level 1 Infrastructures – Power and Energy Lewis, Chapters 9 and 10
Lecture 7	Applying MBVA to Federal Level 1 Infrastructures – Telecommunications Lewis, Chapter 11
Lecture 8	Applying MBVA to Federal Level 1 Infrastructures – Internet Lewis, Chapter 12
Lecture 9	Applying MBVA to Federal Level 1 Infrastructures – Cyber Threats and Security Lewis, Chapters 13 and 14
Lecture 10	Continuity of Operations (COOP) Planning, Rehearsing and Exercising WebTycho Download
Lecture 11	Emergency Infrastructure Protection Plan Assessment – Academia WebTycho Download
Lecture 12	Emergency Infrastructure Protection Plan Assessment – Municipalities WebTycho Download
Lecture 13	Emergency Infrastructure Protection Plan Assessment – Hospitals

	WebTycho Download
Lecture 14	Infrastructure Protection and Risk Management: Lessons Learned from 9/11 and Katrina/Wilma/Rita WebTycho Download
Lecture 15	Contemporary Topics in Critical Infrastructure Protection WebTycho Download

13. Learning Goals:

By the end of the course, students will be able to:

- Understand and be able to articulate the Risk Management process, including the need for identification of threats, vulnerabilities, and safeguards, and for testing the effectiveness of those safeguards.
- Understand the need, uses, and content of Risk Assessment analyses within the quantitative and qualitative analysis paradigms.
- Identify and develop a detailed Risk Assessment, given an organizational scenario.
- Identify security policy and enforcement needs and be able to develop those needs into policy or procedures, given an organizational scenario.
- Design an effective disaster recovery and training program, given an operational scenario.
- Identify and argue the best short-term and long-term continuity of operations solution, given an operational scenario.

14. Assessment Strategies

The final grade will be determined as follows:

Item 1: Course participation 15%

Item 2: Phase I Midterm Exam 20%

Item 3: Phase II Midterm Exam 20%

Item 4: Graded Continuity of Operations Plan 20%

Item 5: Final Exam 25%

15. Possible texts:

Lewis, Ted G., *Critical Infrastructure Protection in Homeland Security*, Wiley - Interscience (2006), ISBN 0471786284.

K. H. Spencer Pickett, *Audit Planning: A Risk-based Approach*, Wiley (2006) ,ISBN 0471784311

Please see the attached syllabus.

The UB/TOWSON MBA

MGMT 770: Planning, Prevention and Risk Management

COURSE DESCRIPTION

This course identifies and defines critical infrastructures, and their associated threats and countermeasures. Next, software applications containing risk management tools are mastered and provide skills necessary for the comparison and selection of competing proposals designed to optimize infrastructure protection. Industry-specific studies are performed using risk these management analysis techniques. Contingency and Continuity of Operation Planning (COOP) techniques are also reviewed. Finally, the skills acquired during the course are applied to case studies of selected industrial, service and government organizations, for the purpose of practicing critical infrastructure planning, protection and risk management.

SUGGESTED TEXTBOOK(S)

Lewis, Ted G., *Critical Infrastructure Protection in Homeland Security*, Wiley - Interscience (2006), ISBN 0471786284.

K. H. Spencer Pickett, *Audit Planning: A Risk-based Approach*, Wiley (2006) ,ISBN 0471784311

PREREQUISITE:

None

OBJECTIVES / LEARNING OUTCOMES: By the end of the course, students will be able to:

1. Understand and be able to articulate the Risk Management process, including the need for identification of threats, vulnerabilities, and safeguards, and for testing the effectiveness of those safeguards.
2. Understand the need, uses, and content of Risk Assessment analyses within the quantitative and qualitative analysis paradigms.
3. Identify and develop a detailed Risk Assessment, given an organizational scenario.
4. Identify security policy and enforcement needs and be able to develop those needs into policy or procedures, given an organizational scenario.
5. Design an effective disaster recovery and training program, given an operational scenario.

6. Identify and argue the best short-term and long-term continuity of operations solution, given an operational scenario.

REFERENCES:

References such as the National Response Plan and the National Incident Management System will be uploaded to WebTycho during the course.

Web Site :

Relevant websites provided through webTycho

SUGGESTED GRADING:

- The Phase I Midterm Exam: issued after the first four Lectures of classes. The exam consists of short answer and essay questions.
- The Phase II Midterm Exam: issued after Lectures five through nine of classes. The exam consists of short answer and essay questions.
- Graded Continuity of Operations Plan- written assignment that will be evaluated in accordance with the following rubric:

Professional writing will be a part of the grade for this item. The graded continuity of operations plan will be drafted by each Student, and will be no longer than 6 pages in length, typewritten, double-spaced and 12 font, not including appendices and attachments. These are strict length requirements - the papers will be returned to the Students if they exceed these length requirements. The professional writing grade will constitute 200 basis points (20%) towards the final grade for the course. The writing assignment will be graded on three criteria. The first criterion is technical merit (grammar, usage, spelling, and punctuation). The second criterion is substantive merit (the Student's grasp of the subject matter). Finally, the third criterion is style (how well the Student communicated his/her ideas in writing).

The final grade will be determined as follows:

Item 1: Course participation 15%

Item 2: Phase I Midterm Exam 20%

Item 3: Phase II Midterm Exam 20%

Item 4: Graded Continuity of Operations Plan 20%

Item 5: Final Exam 25%

Grading Scheme: A (90-100%); B (80-90%); C (70-79%); F (<70%)

Tentative Schedule

Schedule	Module / Subjects Covered Reading Assignments	Class Discussion Questions (Theme)	Topics Quizzes / special Case Studies
Lecture 1	Course Introduction and Housekeeping Strategies, Origins and Challenges of Critical Infrastructure Protection Lewis, Chapters 1 - 3	What should be protected, and how?	WebTycho Discussion Board tab topics
Lecture 2	Scale-free Network Theory: looking at critical infrastructure protection from a holistic viewpoint. Lewis, Chapter 4	What are the common denominators shared by critical infrastructure?	WebTycho Discussion Board tab topics
Lecture 3	Introduction to Model-Based Vulnerability Analysis (MBVA) Lewis, Chapter 5	Why are models important in risk management?	WebTycho Discussion Board tab topics
Lecture 4	Risk Analysis Lewis, Chapter 6	How much critical infrastructure protection is enough?	WebTycho Discussion Board tab topics Issue the Phase I Exam
Lecture 5	Applying MBVA to Federal Level 1 Infrastructures – Water and Supervisory Control and Data Acquisition (SCADA) Lewis, Chapters 7 and 8	What are the Federal levels of infrastructure?	Phase I Exam Questions and Answers The Phase I Exam is Due
Lecture 6	Applying MBVA to Federal Level 1 Infrastructures – Power and Energy Lewis, Chapters 9 and 10	What is the concept of codependency in energy sources?	WebTycho Discussion Board tab topics
Lecture 7	Applying MBVA to Federal Level 1 Infrastructures – Telecommunications Lewis, Chapter 11	Who is responsible for 911 service and at what levels of government?	WebTycho Discussion Board tab topics
Lecture 8	Applying MBVA to Federal Level 1 Infrastructures – Internet Lewis, Chapter 12	How can I use the internet if the power goes out?	WebTycho Discussion Board tab topics
Lecture 9	Applying MBVA to Federal Level 1 Infrastructures – Cyber Threats and Security Lewis, Chapters 13 and 14	What is cyberterrorism and how does it affect critical infrastructure?	WebTycho Discussion Board tab topics Issue the Phase II Exam
Lecture 10	Continuity of Operations (COOP) Planning, Rehearsing and Exercising WebTycho Download	What are the most important aspects of a COOP plan?	Phase II Exam Questions and Answers The Phase II Exam is Due Issue the Graded Continuity of Operations Plan Writing Assignment
Lecture 11	Emergency Infrastructure Protection Plan Assessment – Academia WebTycho Download	Can we apply risk analysis techniques to protect the critical infrastructure of colleges and universities?	Graded Continuity of Operations Plan Writing Assignment Questions and Answers
Lecture 12	Emergency Infrastructure Protection Plan	Can we apply risk	WebTycho Discussion

	Assessment – Municipalities WebTycho Download	analysis techniques to protect the critical infrastructure of municipal organizations, such as police and fire stations?	Board Topics
<i>Lecture 13</i>	Emergency Infrastructure Protection Plan Assessment – Hospitals WebTycho Download	Can we apply risk analysis techniques to protect the critical infrastructure of hospitals?	Issue the Final Exam Final Exam Questions and Answers
<i>Lecture 14</i>	Infrastructure Protection and Risk Management: Lessons Learned from 9/11 and Katrina/Wilma/Rita WebTycho Download	Common sources of infrastructure protection failures during these events.	Final Exam Questions and Answers Course Critiques are Due
<i>Lecture 15</i>	Contemporary Topics in Critical Infrastructure Protection WebTycho Download	Is the Goldwater-Nichols Act of 1986 Applicable to Federal/State Joint emergency response operations?	The Final Exam is Due

Bibliography and Webliography

Provided by instructor