

Syllabus for XTMN 606 (Information Security and Global Management)

Course Description

In this final seminar, the proliferation of corporate databases and the development of telecommunication network technology as gateways or invitations to intrusion are examined. Ways of investigating the management of the risk and security of data and data systems are presented as a function of design through recovery and protection. Issues of risk and security as they relate to specific industries and government are major topics. Examples are presented of how major technological advances in computer and operating systems have placed data, as tangible corporate assets, at risk. Quantitative sampling techniques for risk assessment and for qualitative decision making under uncertainty are explored. Finally, a framework is developed for analyzing the competitive structure of industries and for formulating strategy within an international context. Competitive theories, analyses, and strategies relevant to the major national and regional business environments are examined. Organizational and functional issues are discussed, including transnational company structures, the role of marketing, finance, trade, technology transfer and the public-private interface in the formulation of firm strategy.

Course Goals/Objectives

At the end of this seminar the student should be able to:

- Analyze the threats, vulnerabilities and security controls of information and telecommunications systems.
- Assess information security techniques, both technical and managerial.
- Demonstrate a deeper understanding of the elements of information security management through an analysis of industry and government programs and policies.
- Demonstrate a knowledge base covering the full realm of information systems security issues.
- Analyze a wide array of competitive problems in international business and commerce, applying a common theoretical framework and vocabulary.
- Identify the competitive factors that contribute to the success (or failure) of business enterprises in the global marketplace.
- Utilize competitive analysis in the formulation of strategy and apply it to specific problems in international business and commerce.
- Describe how basic cultural differences and inter-cultural issues affect the external and internal environments of transnational business operations.
- Delineate the overriding issues and problem areas in international trade, finance, marketing, technology transfer and investment as they relate to the formulation of competitive strategy.
- Describe the structure and function of various basic operating modes of transnational enterprise.
- Assess the basic ways in which government affects the conduct of international business, whether in the United States or overseas.

Grading Criteria

Section removed.

Academic Policies and Procedures

Section removed.

Project Descriptions

WEEK 1: Introduction to Information Systems Security & Risk Management

- Information systems overview
- Vulnerabilities
- Threats to automated information systems
- Societal, business, organizational forces
- Ethics and privacy laws
- Overview of computer crime
- Viruses and other computer attacks

Reading

Pfleeger, C.P., & Pfleeger, S.L. (2003). *Security in computing* (3rd ed). Englewood Cliffs, NJ: Prentice Hall. **Chapters: 1, 3, 9.**

Assignment

Research paper topics will be assigned.

Research paper: In consultation with the instructor, each student will prepare a research paper on a subject covered in this module. The purpose of the paper is to allow the graduate student to review current literature on that subject. The paper will be graded on technical content, format and working skill. It should follow these guidelines:

- Must be a minimum of 15 double-spaced pages in length, excluding bibliography, table of contents or any graphic, tabular or illustrative material.
- Must incorporate all reviewed articles in a comprehensive whole.
- Must end with a summary of findings.

WEEK 2: Analysis of "Real Life" Security Case Study

Reading

Pfleeger, C.P., & Pfleeger, S.L. (2003). *Security in computing* (3rd ed). Englewood Cliffs, NJ: Prentice Hall.

Assignment

See week 2 course content area for team assignment #1.

WEEK 3: Information Systems Security: Technical Perspective

- Network security
- Mainframe computer security
- Database security
- Microcomputer security
- Local area networks (LAN) security
- Communications security: Telephone, satellites, fiber, cellular

Reading

Pfleeger, C.P., & Pfleeger, S.L. (2003). *Security in computing* (3rd ed). Englewood Cliffs, NJ: Prentice Hall. **Chapters: 2, 4, 5, 6, 7, 10**

Assignment

Team assignment #1 and group presentations are due.

WEEK 4: Analysis of a Team Problem Scenario

- The instructor will assign each team a problem scenario
- The team will then work online to design a solution
- Use information discussed in class and research on the Internet
- Each individual will submit a paper summarizing their solution as part of the team work

Reading

Pfleeger, C.P., & Pfleeger, S.L. (2003). *Security in computing* (3rd ed). Englewood Cliffs, NJ: Prentice Hall.

WEEK 5: Information Systems Security: Management Perspective

- Risk assessment and analysis
- National security policies: Who does what?
- Management issues
- Physical controls
- Contingency planning / disaster recovery
- Personnel policies
- Implementing an information systems security program

Reading

Pfleeger, C.P., & Pfleeger, S.L. (2003). *Security in computing* (3rd ed). Englewood Cliffs, NJ: Prentice Hall. **Chapter: 8**

Assignment

Research Paper due. Individual assignment #1 due.

WEEK 6: Global Management Context

- Comparative vs. competitive advantage
- International product life cycle
- Ethnocentric, polycentric, geocentric orientations
- Strategically profiling the industry
- Industry analysis in an international context (illustrate: e.g., oil industry)
- Strategic groups within industries
- Financial comparisons in industry context
- Industry clusters in global context

Reading

Bartlett, C.A., & Ghoshal, S. (2003). *Transnational management: Text, cases, and readings in cross border management* (4th ed.). Irwin McGraw-Hill. **Chapters: 1 and 2 Text & Readings; Case: 8-1**

WEEK 7: Country Analysis

- Comparative social and economic systems
- Country profile methodology
- Rules of the game and competition, cultural differences
- Institutional framework for doing business
- Business strategies and management practices

Reading

Bartlett, C.A., & Ghoshal, S. (2003). *Transnational management: Text, cases, and readings in cross border management* (4th ed.). Irwin McGraw-Hill. **Chapter: 6 Text & Readings; Case: 2-3**

Assignment

See week 7 conference for individual assignment #2.

WEEK 8: Strategy Formulation Concepts Process and Techniques

- Strategy formulation process alternative approaches
- Goals and means for building global strategic capability
- Strategy levels: Corporate, business unit and function
- Dealing with rapid change External / internal audit
- Mission / vision / core competence
- Generic strategies

Reading

Bartlett, C.A., & Ghoshal, S. (2003). *Transnational management: Text, cases, and readings in cross border management* (4th ed.). Irwin McGraw-Hill. **Chapter: 3 Text & Readings; Cases: 2-1, 2-2, 3-1, 3-2**

Assignment

Team Assignment #2: See week 8 conference for case assignment and instructions.

WEEK 9: Strategy Formulation / Logic of Collaboration

- Technology strengths / needs analysis
- Protecting and augmenting core competencies
- Competitive vs. collaborative strategy
 - Strategic Alliances
- Configuring and coordinating operations
- Integrating business functions
- Parent / subsidiary relationship roles and responsibilities
- Organizational structure and strategies
- Transnational challenge

Reading

Bartlett, C.A., & Ghoshal, S. (2003). *Transnational management: Text, cases, and readings in cross border management* (4th ed.). Irwin McGraw-Hill. **Chapters: 4 and 5**
Text & Readings; Case: 4-1

Assignment

Participate in the online conference for Week 9 on the future of leadership and management.

WEEK 10: Organizational Capability

- Technology protection and technology transfer
- Building the learning enterprise
- Global business management tasks
- Worldwide functions
- Geographic subsidiaries
- Top level corporate tasks
- Global trends

Reading

Bartlett, C.A., & Ghoshal, S. (2003). *Transnational management: Text, cases, and readings in cross border management* (4th ed.). Irwin McGraw-Hill. **Chapters: 7 and 8**
Text & Readings; Cases: 3-4, 4-4, 5-3

Assignment

Team Assignment # 3: See week 10 conference for case assignments and instructions.
DUE on 3/14

Individual Assignment #3: Take home Exam - DUE on 3/14

There will be a take-home final examination. This will be an essay-style examination and answers will be limited in length. Concise, clearly stated and well-reasoned

answers are necessary in order to receive full credit. Exam responses must be typewritten in graduate level English. The final examination will cover the entire module, including all required readings, cases, lecture material and class discussions.

Course Schedule

Assignment Schedule				
Week	Dates	Topics	Assignments (Due)	%
01 Flyzik	01/06 f2f	<u>Introduction to information systems security & risk management</u>	<u>Identify research paper</u>	
02 Flyzik	01/13 web	<u>Analysis of "Real Life" security case study</u>	<u>Team assignment #1</u>	05
03 Flyzik	01/20 f2f	<u>Information systems security: Technical perspective</u>	<u>Team assignment #1 and group presentations due</u>	
04 Flyzik	01/27 web	<u>Analysis of a team problem scenario</u>	Individual assignment #1	15
05 Flyzik	02/03 f2f	<u>Information systems security: Management perspective</u>	<u>Individual assignment #1 and research paper due</u>	25
Seminar Break				
06 Power	02/17 f2f	<u>Global management context</u>		
07 Power	02/24 web	<u>Country analysis</u>	<u>Individual assignment #2</u>	05
08 Power	03/03 f2f	<u>Strategy formulation concepts process and techniques</u>	<u>Team assignment #2</u>	15
09 Power	03/10 web	<u>Strategy formulation logic of collaboration</u>	<u>Conference participation</u>	
10 Power	03/17 f2f	<u>Organizational capability</u>	<u>Team assignment #3</u>	15
			<u>Individual assignment #3: Take home exam DUE on 3/14</u>	10
Sessions 1-11		Participation (in-class, online, and team)		10
03/24 03/31 & 04/07		End-of-Seminar Break	Total	100