

**Computer Science Program
Division of Science
College of Arts and Sciences
Governors State University**

Course Syllabus

Course Title: Information Security Policy and Management

Course Number: CPSC 581 / MIS 581

Credit Hours: 3

Instructor:

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Trimester offered:

Office Hours:

Catalog Description:

Explores policy and management aspects of information security to protect computer systems and networks. Topics include security models, policy, planning, risk analysis and management, operations security, physical, personnel and administrative security, access control, security evaluation, life cycle management, software security guidelines, network security guidelines, auditing and monitoring, and legal and ethical issues.

Prerequisite:

CPSC/MIS 580 or equivalent courses with the instructor's consent.

Restrictions:

None.

Rationale:

Security plays an important role in today's networks and hosts. Information security and assurance not only are related to technical approaches, but also include management aspects. This course is complementary to techniques based information security courses, and helps students to understand the policy and management issues in security and assurance, which is also essential in protecting today's information systems.

Intended Audience:

This course is suitable for those who have basic security knowledge and look for a broader view of security and assurance, which emphasizes policy and management issues. Both undergraduate and graduate majors in Computer Science or MIS can enroll in this course. Course requirements will be more stringent for graduate students.

Expected Student Outcomes:

- At the completion of this course, with appropriate study, students will be able to
- Explain the various concepts such as security models, security policy, risk analysis and management, tempest security, etc.
 - Outline the procedures related to security planning, system lifecycle management, physical security, personnel security, and administrative security.
 - Differentiate the advantages and disadvantages of various security management practices.
 - Combine the appropriate measures to protect organizations' information systems and assets.
 - In addition, graduate students will be able to evaluate different existing security techniques.

Instructional Modalities:

Lectures/in-class discussion. The course will be supported using WebCT.

Activities/Assignments/Requirements:

Lectures, homework assignments, and projects. Students are required to finish a project in information security policy and management. Students are also required to present their projects. Please consult with the instructor about the project topics. Handouts with additional instructions will be passed out on the first night of class. Graduate students will have the requirement of at least one additional essay on each exam, and, while they will complete the same projects, the grading standards for projects will be higher. All assignments will have due dates and will not be accepted after the corresponding due date.

Textbooks:

Krause, M., & Tipton, H. F. (2006). Information Security Management Handbook (Fifth Edition). Boca Raton, FL: CRC Press - Auerbach Publications. ISBN: 0849398290.

Topical Outline:

The tentative schedule is listed as follows.

Week	Topics
1	Course outline and basic concepts and mechanism in information security, security policy and security management.
2	Information security policy
3	Organizational security model, national and organizational security policy and guidelines. Security planning.
4	Risk analysis and management I
5	Risk analysis and management II

- 6 Operations security
- 7 Physical, personnel and administrative security, and security training and awareness
- 8 Project proposal presentation
- 9 Auditing and monitoring, security models and evaluation, certification and accreditation.
- 10 System life cycle management
- 11 Software security guidelines and management
- 12 Network security guidelines and management
- 13 Miscellaneous security management topics (key management, transmission security, tempest security, remanence security, NSTISS security policy and guidelines, etc.)
- 14 Legal and ethical issues
- 15 Project final report presentation

Course Evaluation:

Final grade in the course will be based on the following:

Undergraduate students:

Homework Assignment	30%
Project Proposal	15%
Project Final Report	25%
Two presentations (proposal and final)	20% (10% each)
Class Participation	10%

Graduate students:

Homework Assignment	30%
Project Proposal	20%
Project Final Report	30%
Two presentations (proposal and final)	10% (5% each)
Class Participation	10%

After the numerical grade has been calculated, the letter grade will be determined as follows:

A	90–100% of the total percentage points possible
B	80–89.9% of the total percentage points possible
C	70–79.9% of the total percentage points possible
D	60–69.9% of the total percentage points possible
F	below 60% of the total percentage points possible

Disability Statement:

Students who have a disability or special needs and require accommodation in order to have equal access to the classroom, must register with the designated staff member in the Division of Student Development. Please go to Room B1201 or call (708) 534-4090 and ask for the Coordinator of Disability Services. Students will be required to provide documentation of any disability when an accommodation is requested.