

University of Maryland University College, Asian Division  
**IFSM 430a Information Systems and Security**

TERM V  
June 5-July 26, 2006  
Tuesday / Thursday, 1830-2130

Syllabus

INSTRUCTOR: BJ Gleason  
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Website: <http://www.thinairlabs.com>  
Office Hours: Before and After Class, by appointment.

**PREREQUISITE: Don't even think about taking this course if you have not finished IFSM 300.** Due to the technical nature of this course, it is also recommended that student complete IFSM 310 and IFSM 450 as well. If you have questions or concerns, contact the instructor.

**TEXTBOOKS:** Whitman, M. (2005), Principles of Information Security, ISBN: 0-619-21625-5  
Stoll, C. (1989), The Cuckoo's Egg, Pocket Books, ISBN: 1-416-50778-7

**DESCRIPTION:** A survey covering aspects of establishing and maintaining a practical information-security program. The security aspects and implications of databases, telecommunication systems, and software are examined, along with techniques used to assess risks and discover abuses of systems.

**OBJECTIVES:**

- Identify critical information system security measures their discuss their importance
- Identify and discuss the business and organizational issues involving information systems security
- Define and illustrate the terms, techniques, procedures, and methods associated with INFOSEC.
- Apply INFOSEC techniques, procedures, and methods to practical security problems
- Define and design an organizational protection architecture
- Compare and contrast encryption techniques for user privacy and system confidentiality
- Identify legal issues and government regulations related to information security

**CERTIFICATION:** This course will help prepare the student to obtain the CompTIA Security+ certification.

**INTERNET ACCESS:** Students will be expected to have e-mail and Internet access. Most of the homework assignments will require extensive use of these resources.

**MAILING LIST: Students are required to sign up for the class mailing list before the first class meeting. This is your first graded assignment.** See the website for instructions.

**EVALUATION:**

Attendance / Participation	10%
Quizzes	15%
Assignments	10%
Examination 1, 2	40%
Final Examination	25%

POLICIES, PROCEDURES AND GRADES: IAW with the University of Maryland, University Catalog, Asian Division, and the Student Handbook (current editions). These cover essential information such as attendance, grading, make-up work and plagiarism.

ATTENDANCE: Because much of the material in this class consists of in-class group problem solving activities, class attendance is essential. Students are expected to attend all scheduled classes. However, if a student must miss a class due to military obligations or other unavoidable circumstances, every effort must be made by the student to obtain class notes and other material discussed. Communication with the instructor is vital and the student should notify the instructor of any anticipated absences. **There are NO makeups for missed assignments or examinations unless arrangements are made ahead of time. Attendance is taken only at the beginning of class.**

HOMEWORK: **All assignments must be turned in at the beginning of class on the due date.** In the event of bonafide duty-related absence on the due date, arrangements must be made with the instructor in advance. **Homework is not accepted late.**

PLAGIARISM POLICY: Plagiarism is defined: to steal or use the ideas or writings of another as one's own. This may be avoided in most instances by giving credit/recognition to the original author. The University of Maryland, Asian Division's standard plagiarism policy is: intentionally plagiarized papers, reports, or exams will receive an F or 0 (zero), whether copied whole or in part. Subsequent cases of plagiarism can result in failure in the course. Unintentional plagiarism - cases arising from student inexperience rather than deliberate deception can result in a lower grade on papers than they might otherwise deserve and in mandatory rewriting.

HAND PHONES, BEEPERS: Are to be tuned off before class begins. Emergency personnel should set their devices to a setting that will not disturb the class.

OUTLINE - *Schedule is subject to change, however all subjects will be covered.*

DATE	DISCUSSION TOPICS
Week 1	Introduction / The Need for Security
Week 2	Legal and Ethical Issues / Risk Management
Week 3	<b>Exam 1</b> / Planning for Security
Week 4	Firewalls and VPNs / Intrusion Detection and Access Control
Week 5	Cryptography / <b>Exam 2</b>
Week 6	Physical Security / Implementation
Week 7	Security and Personnel
Week 8	Information Security Management / <b>Final Exam</b>

**Prerequisite Quiz: *Are you ready for this class?***

1. The firm is connected to the elements in its environment by \_\_\_\_\_.
2. TQM consists of the three main elements of \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
3. During the planning phase, the systems analyst functions as \_\_\_\_\_.
4. What is the maximum value for a signed 16 bit integer?
5. How many bytes are in a 1K?