



College of Business

Department of Computer Science and Information Systems

MURRAY STATE UNIVERSITY

COURSE SYLLABUS

TSM440 (Fall 2010)

Information Security Management, Policy and Audit

DEPARTMENT: Computer Science and Information Systems

COURSE NUMBER: TSM 440

CREDIT HOURS: 3

- I. **TITLE:** Information Security Management, Policy and Audit.
- II. **CATALOG DESCRIPTION:** Advanced study of information assurance policy and management, and security auditing. The end-to-end process of information assurance policy development, implementation, management, and audit is examined including the impact of national policy and regulation, with the objective of establishing and maintaining the confidentiality, integrity, and availability of digital information. Prerequisites: TSM 352.
- III. **PURPOSE:** The purpose of the course is to provide students the skills necessary to successfully establish, manage, review, and monitor information assurance programs.
- IV. **COURSE OBJECTIVES:** By the completion of the course, students will be able to:
 - A. Identify the goals of an information assurance program
 - B. Identify and use metrics for measuring the success of an information assurance program
 - C. Locate, interpret, and implement information assurance regulation and policy
 - D. Prepare useful information assurance program documentation
 - E. Select and implement a security model
 - F. Manage identification, authentication and access control
 - G. Monitor an information assurance program
 - H. Manage cryptographic systems
 - I. Evaluate an information assurance program
- V. **CONTENT OUTLINE**
 - A. Introduction to the Management of Information Assurance
 - B. Planning for Security and Contingencies
 - C. Information Assurance Policy and Documentation
 - D. Security Management Models and Practices
 - E. Risk Management
 - F. Protection Mechanisms
 - G. Personnel and Security
 - H. Regulations, Audit, and Monitoring

- VI. INSTRUCTIONAL ACTIVITIES:** Lecture, discussion, case studies, hands-on exercises, and problem-based learning.
- VII. FIELD, CLINICAL, AND/OR LABORATORY EXPERIENCES:** Students will conduct periodic web based research of course related current events/topics and present the results in class during informal presentations and discussions. Students will design and document information assurance program and policies.
- VIII. RESOURCES:** MSU Blackboard – <http://estudy.murraystate.edu/webapps/login/>

IX. GRADING PROCEDURES:

Grading Scale: 92-100% A
80-91% B
70-79% C
60-69% D
Below 60% E

Students will be graded on participation, presentations, papers, and examinations.

1. Homework/quizzes, and participation – 10%.
2. Tests – 50% (probably 3)
3. Term Paper and Presentation – 20%
4. Security Management/Policy Project – 20%.

Grievance and Appeals Policy: <http://www.murraystate.edu/cbpa/PDF/Appeals.pdf>.

- X. ATTENDANCE POLICY:** This course will adhere to the attendance policy published in the current MSU Bulletin. Lecture attendance is mandatory and will be checked. Students that have 3 unexcused absences will lose 1 exam point for each additional unexcused absence up to a total of 5 absences. Students will lose 2 exam points for each additional unexcused absence in excess of 5.
- XI. ACADEMIC HONESTY POLICY:** Automated tools will be used to check papers and assignments for plagiarism. The Murray State University College of Business (MSU CoB) Academic Honesty Policy is viewable online at: <http://www.murraystate.edu/cbpa/PDF/Honesty.pdf>. Cheating, plagiarism, submitting another person's material as one's own, or doing work for another person for academic credit are all impermissible. This includes the use of unauthorized books, notebooks, people, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, or term papers, laboratory reports, drawings or the presentation of unacknowledged material as if it were the student's own work. Disciplinary action may result in no credit for an assignment or exam and/or failure of the course. All instances of academic dishonesty will receive appropriate punitive action from the instructor of this course and the names of the students involved will be reported to the Dean in all instances. The MSU CoB Ethics policy is viewable online at: <http://www.murraystate.edu/cbpa/PDF/Ethics.pdf>
- XII. TEXT AND REFERENCES:** Management of Information Security, 3rd Edition, Michael E. Whitman and Herbert J. Mattord, Thompson Course Technology, 2008, ISBN 978-1435488847.
- XIII. PREREQUISITES:** TSM 352.

- XIV.** STATEMENT OF AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY: Murray State University does not discriminate on grounds of race, color, gender, sexual orientation, religion, national origin, age, handicap, or veteran's status in providing any educational or other benefits services of Murray State University to students or those applying for admission at Murray State University. Murray State University attempts to provide equal opportunity in all areas of student admissions, financial aid, employment, and placement and provides upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities an equal opportunity to participate in all programs and activities.
- XV.** Fall 2010 Office hours: Mon and Wed 1:00-3:30 PM, Tues and Thurs 8:30 – 11:00 AM.