



## CPT 282 – Information Systems Security

### Information Systems Technology Department

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#### Semester:

**Catalog Course Description:** This course is a general survey of the issues, technologies, threats, and precautions with which an information technology professional must be familiar in today's environment.

**Prerequisite(s):** IST 225, CPT 104, and CPT 236

**Credit Hours:** 3.0

**Departmental Website:** <http://www.midlandstech.edu/edu/ed/ISM/CPT/>

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**Textbooks:** *Corporate Computer and Network Security*,  
by: Panko. 2004. Pearson/Prentice Hall Publishers. ISBN#: 0-13-185475-5.

**Equipment:** A flash drive to save programs is recommended.

**Course Objectives:** Upon completion of this course the student will be able to:

1. Explain current trends and issues in IT security.
2. Demonstrate fluency with security-related terminology.
3. List and explain the different types of security problems commonly encountered
4. Demonstrate a working knowledge of networking fundamentals, as applied in the security field.
5. Explain the different types of network security issues, and their related solutions and safeguards.
6. Demonstrate a working knowledge of software firewalls, and how to configure a firewall.
7. Explain the different types of host-related security issues, and the safeguards and precautions that apply.
8. . Explain the different types of server security issues, and the safeguards and precautions that apply.
9. Explain the different types of application security issues, and the safeguards and precautions that apply.
10. Explain or illustrate the operating principles of common cryptographic methods..
11. Explain the function, applicability, and use of common cryptographic systems as part of a security strategy.

12. Identify and explain the types of compatibility problems that can arise between firewalls and cryptographic systems, and the solutions that may be applied to these problems.
13. Identify and explain the main business-related aspects of information system security, and how security should be factored into an organization's technical and managerial structure.

**Course Outcomes and Competencies:**

**Intended Course Outcome:**

Students will communicate an understanding of modern information system security issues, precautions that can be taken, and how these considerations impact a modern business environment.

**Course Competency:**

Students will research a current topic in modern IT security management, and give a presentation that explains the nature and details of the security problem referenced, outlines recommended security precautions, and presents findings of how that security issue is currently affecting businesses or institutions in specific cases.

**Performance Measurement Instrument:**

Students will prepare a presentation which will be evaluated using a standardized assessment rubric developed by faculty.

**Course Attendance:**

Students may not miss more than 15% of scheduled classes, regardless of the reason for the absence. After exceeding this limit, a student will be withdrawn from the class by the instructor. Attendance will be taken at the beginning of the class period. Students not answering to the roll call at that time will be marked absent. Students arriving late may check-in with the instructor after class in order to be marked tardy. Three marks of tardy will count as one absence. Students are required to remain in class until class is dismissed, and will otherwise be marked absent, unless prior arrangements are made in advance with the instructor. Attendance records will not be changed retroactively after the scheduled class meeting.

**Please note the following:** You are responsible for all material and announcements presented, whether you are present or absent.

**Withdrawal:** Should the maximum allowable absences be exceeded prior to midterm, a "W" will be submitted to the registrar to be recorded on the student's transcript. Should the maximum allowable absences be exceeded after midterm, a "W" will be submitted to the registrar if the student was passing the course at the time of withdrawal OR a "WF" will be submitted if the student was failing the course at the time of withdrawal.

**Course Grading:** To be announced by instructor.

<b>Grading Scale:</b>	94-100	A	Superior Work
	87-93	B	Good Work
	78-86	C	Average Work
	0-77	F	Unsatisfactory Work



**Students are expected to read the student handbook and abide by its policies. Copies of the handbook may be obtained at various locations on campus and is located on the web:**

**<http://www.midlandstech.edu/planner/>**

**Academic Dishonesty:** The Student Code addresses what constitutes academic dishonesty. All forms of dishonesty including, but not limited to, cheating on tests, plagiarism, collusion and falsification, will call for discipline.

CHEATING ON TESTS includes:

- Copying from another student's paper.
- Using materials during a test not authorized by the person giving the test.
- Collaborating with any other person during a test without permission.
- Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or part the contents of any un-administered test.
- Bribing any other person to obtain information about tests.
- Substituting for another student, or permitting another student to substitute for oneself.

PLAGIARISM is the appropriation of any other person's work and unacknowledged incorporation of that work in one's own work offered for credit.

**Campus Emergency Protocol:** Students and employees are asked to report safety concerns or suspicious activities to Campus Security at 7199 (on campus) or 738-7199 (cell phone or off campus). In the event of an emergency, employees and/or students should immediately call Campus Security or local 911. If an emergency occurs, the college will use a variety of methods to communicate additional information and instructions including the MTC Information Centers, campus loud speakers, MTC Alerts! ([http://www.midlandstech.edu/Phone\\_Alert.htm](http://www.midlandstech.edu/Phone_Alert.htm)), voice mail, email, college Intranet, and the MTC website homepage.

**Inclement Weather Policy:** In the event weather conditions or other emergencies cause the closing or a delayed start of Midlands Technical College, announcements will be made over local radio and TV stations, on the MTC Web site, and on the college's information line (803-738-8234). Notices will be sent to students via Campus Cruiser Mail when applicable. Separate announcements may be made for day and evening classes as weather conditions change during the day.

If the college closing or reopening means that there is at least 30 minutes of a class remaining, plan to attend that class. For example, if the college opens at 10:00 a.m. in TTH, classes that normally meet at 8:00 a.m. will not meet, but classes beginning at 9:30 a.m. will meet. If the college closes at 8:00 p.m., 6:00 p.m. classes will meet for their regular time, but 7:35 p.m. classes will not meet since there are fewer than 30 minutes remaining in class.

**Student E-Mail Accounts:** All MTC students are assigned a college e-mail account upon admission to the college. This account is called "Campus Cruiser Mail." Campus Cruiser Mail is the primary mode by which the college communicates with students. Students are responsible for checking their college e-mail on a regular basis for important information and announcements about registration, financial aid, cancelled classes, emergency announcements and other notices. Students can use their college e-mail accounts to communicate with faculty, staff, fellow students, and others, in support of their educational pursuits. In addition to e-mail, students will also have access to maintaining personal calendars and "tasks lists" through their Campus Cruiser e-mail account.

**Student Evaluation of Instruction:** Students have the opportunity to evaluate this course. The confidential evaluation process is conducted through MTC Online using the individual student's username and password. Announcements will be made during the term concerning how and when to complete the online evaluation. Students are encouraged to participate in this process.

**Students Requiring Special Accommodations:** If special accommodations are needed for a student with a disability, the student should go to Counseling Services on Beltline or Airport Campus for assistance. Documentation regarding a specific disability is required in order for special arrangements to be made. Confidentiality of information received will be maintained.