

**Kapi'olani Community College**  
**ITS 324: PC/Network Security & Safeguards (CRN #32228)**

**Fall 2011 Syllabus**

**Location:** Kopiko 104, Wednesdays, 5:00-7:45 pm.

**Course Description:** ITS 324 centers on the principles of PC & Network security in small and home businesses. The course covers hardware and software security issues and solutions, peer-to-peer and server networks, LAN and Internet security as well as internal business security, data content, email, and physical security. Preventive security and disaster recovery are addressed. Common risk assessment strategies are developed with adaptations for various business situations to assist the student in developing security plans for various business situations. Common security tools are explored. The course covers basic communication security, infrastructure security, cryptography basics, computer forensics, and common security issues faced by computer users, with hands on labs to reinforce many of the security tools covered.

**Prerequisites:** A grade of "C" or higher in ITS 224, or consent of the Business Legal and Technology Department chairperson, IT program coordinator, or course instructor.

**Instructor:** Hal Corcoran  
Office: Kopiko 214

Telephone: 734-9462  
email: [halc@hawaii.edu](mailto:halc@hawaii.edu)

**Office hours:** Tuesdays and Thursdays 2 to 3 pm and Wednesdays 3 to 5 pm in Kopiko 214, or whenever I am in my office or the Mamane 103 computer lab, or by appointment, or whenever you see me. Your questions and concerns are always welcome.

**Required Textbooks:**

1. Gregory, Peter, *CISSP Guide to Security Essentials*, Course Technology Incorporated, 2010, ISBN 1-435-42819-6
2. Whitman and Mattord, *Readings and Cases in the Management of Information Security*, Course Technology Incorporated, 2006, ISBN 0-619-21627-1

**Class Format:** This class will utilize hands-on activities to the extent possible. In order to get the most out of the hands-on labs, students **must** read the assigned background material **first**. There will be regular quizzes and graded activities based on the reading assignments. Some classroom activities will involve working in groups, with an emphasis on teamwork, mutual respect and cooperation between students. Assignments, announcements, grades, and other materials will be posted on the Lualima class Web site at <https://lualima.hawaii.edu/portal>.

**Attendance:** If you must miss a class, it is your responsibility to arrange to make up any missed quizzes or labs, and to obtain notes from any missed lectures.

**Grading:**

Research paper	10%
Labs, quizzes, and other classroom activities	30%
Midterm Exam	25%
Final Exam	35%
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	100%

Course Grade Calculation:	90-100%:	A
	80-89%:	B
	70-80%:	C

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60-69%:     D  
< 60%:       F

**Course Competencies:** Upon successful completion of ITS 324, the student should be able to:

- Implement network security measures.
- Create a secure computer networking environment applying commonly used network and PC security principles .
- Authenticate and log attacks and malicious code that may be used against a network.
- Employ countermeasures for e-mail threats including digital identification.
- Employ common Web security applications.
- Perform remote access using remote desktop, remote management software and protocols, accessing servers through firewalls.
- Secure file and print services.
- Employ various security topologies.
- Evaluate appropriate technologies for providing secure communications channels such as VPN or virtual private networking, PGP.
- Secure internet-working devices and network media.
- Deploy intrusion detection systems.
- Implement firewalls, both hardware and software.
- Implement physical security concepts and create a physical risk assessment plan for a small business.
- Create security policies.
- Prepare a disaster recovery plan.
- Evaluate computer security using techniques such as computer forensics, tracking and logging.
- Manage and troubleshoot security technologies.

**Quizzes:** Quizzes and examinations may include online (Laulima), written (short answer), or hands-on activities.

**Labs:** Labs will typically include questions intended to stimulate creative thinking about the hands-on activities. Labs will be graded on the answers to these questions, as well as the performance of the lab activities and interaction with your lab partner(s).

**Examinations:** The midterm and final examinations may contain multiple choice/short answer questions as well as a practical component in which students are evaluated in the performance of hands-on tasks which require application of the principles covered by the readings, lectures, and labs.

**Collaboration and Cheating:** Collaboration and cooperation between students on assignments, projects and activities is encouraged. However, cheating or copying assignments will not be tolerated and may result in a failing grade and/or disciplinary action.

**Computer Lab Hours:** The Business Education Department computer lab in Mamane 103 is available to you from 8:30 am to 6:30 pm Mondays through Thursdays.

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**STUDENT RIGHTS AND RESPONSIBILITIES**

In instructional activities, students are responsible for meeting all of the instructor's attendance and assignment requirements. Failure to do so may affect their final grade. In all college related activities, including instruction, they must abide by the college's codes and regulations, refraining from behavior that interferes with the rights and safety of others in the learning environment. Finally, if they decide to file a grievance, they are fully responsible for providing proof that they have been wronged.

**ELECTRONIC COMMUNICATION**

For the consideration of classmates, beepers must be turned to vibrate during class sessions and cell phones must be turned off. Check your messages between classes or during the break.

**EMAIL--University of Hawai'i Policy on Email Communication**

The electronic communications policy adopted in December 2005 establishes the University of Hawai'i internet service as an official medium for communication among students, faculty, and staff. Every member of the system has an @hawaii.edu address, and the associated username and password provide access to essential web announcements and email. You are hereby informed of the need to regularly log in to UH email and web services for announcements and mail. Failing to do so will mean missing critical information from academic and program advisors, instructors, registration and business office staff, classmates, student organizations, and others. For more information go to MyUH at <http://myuh.hawaii.edu>.

**WORK AREA/WORKSTATIONS**

In consideration of other classroom users, please restart computers, clear workstation area of all rubbish, and return chairs to their proper position at the end of each class session.

**WITHDRAWAL**

The last day to withdraw from this class is noted on the academic calendar and deadlines at the KCC website, [www.kcc.hawaii.edu](http://www.kcc.hawaii.edu). Please check this site for the latest updates. It is your responsibility to withdraw via the Web or obtain the withdrawal form from the Kekaulike Information and Service Center (KISC), formerly Admission, Records, and Financial Aid offices, or from your counselor. It is to your advantage to consult with your counselor for available options. Note: If you are enrolled in only one course at the College, withdrawing from that course also withdraws you from the College.

**STUDENT CONDUCT CODE**

The University expects students to maintain standards of personal integrity that are in harmony with the educational goals of the institution; to respect the rights, privileges, and property of others; and to observe national, state, and local laws and University regulations. For more information, please refer to "Student Conduct Code," Kapi'olani Community College General Catalog or <http://kcc.hawaii.edu/page/catalog>

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**AUDIO AND VISUAL RECORDINGS**

Prior permission of the instructor is required for audio and/or visual recordings of lectures or class presentations. Student initiated recording(s) and use of any electronic means of capturing or transmitting lectures or class presentations are prohibited and may be subject to disciplinary action by the College. For more information, please refer to "Student Conduct Code," Kapi`olani Community College General Catalog.

**PLAGIARISM/CHEATING**

Any student, including collaborators, who cheats or plagiarizes on any quiz, exam, or assignment will receive a "zero score" and will be asked to withdraw from class. If you turn in someone else's work or reformat another person's work as your own, it is cheating. You may not share disks, files, or printouts. Be honest with yourself and with others. If you have concerns, please discuss them with your instructor. For more information, please refer to "Student Conduct Code," Kapi`olani Community College General Catalog or <http://kcc.hawaii.edu/page/catalog>

**DISRUPTIVE BEHAVIOR**

Any student whose speech or actions intentionally are disrespectful, offensive, and/or threatening; interferes with the learning activities of other students; impedes the delivery of College services; or has a negative impact in any learning environment may be subject to disciplinary action by the College. For more information, please refer to "Student Conduct Code," Kapi`olani Community College General Catalog.

**ILLEGAL DRUGS AND ALCOHOL ABUSE**

In conformance with existing law, students are not permitted to manufacture, distribute, possess, use dispense or be under the influence of illegal drugs and/or alcohol as prohibited by State and federal law on campus. Students found in violation of this shall be subject to the provisions of the "Student Conduct Code." The university will cooperate with law enforcement agencies. For more information, please refer to "Student Conduct Code," Kapi`olani Community College General Catalog.

**FINAL COURSE GRADE**

Final course grades are usually posted on the web within a week after grades are due. Grade reports are not mailed to students. Check MyUH at <http://myuh.hawaii.edu> to view grades.

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**STUDENT SUPPORT SERVICES**

For more information, please refer to "Student Support Services," Kapi'olani Community College General Catalog or <http://kcc.hawaii.edu/page/catalog>

**Academic Advising** counselors assist students with course selection and planning towards graduation. Cynthia Kimura advises BLT students, Kopiko 109, email [ckimura@hawaii.edu](mailto:ckimura@hawaii.edu), phone 734-9107. BLT counselors email declared accounting, information technology, marketing, and legal education majors important program/departmental/counseling information. Please read your @hawaii.edu email and use your @hawaii.edu email when contacting the counselors.

**Disability Services** provides support services to students with documented disabilities. Extended time in a distraction-free environment is an appropriate accommodation based on a student's disability. If you are a student with a documented disability and have not voluntarily disclosed the nature of your disability and the support you need, you are invited to contact the Disability Support Services Office, `Ilima 103, phone 734-9552 (V/T), for assistance.

**Kekaulike Information and Service Center (KISC)** (formerly the Admission, Records, and Financial Aid offices) assists students regarding registration concerns, transfer credits, financial obligations, scholarships/ grants/loans, on campus employment, etc., `Ilima 102, email [kapinfo@hawaii.edu](mailto:kapinfo@hawaii.edu), phone 734-9555.

**Single Parents and Homemakers Program** assists eligible single parents and displaced homemakers to gain marketable skills. Services include academic, career and personal counseling; referral networks; career/life planning seminars; financial aid; childcare information; and workshops/club activities. You are invited to contact the program in `Iliahi 201, email [spdh@hawaii.edu](mailto:spdh@hawaii.edu), phone 734-9504.

**TRIO-Student Support Services** helps qualified low-income, first-generation students and/or students with disabilities to succeed in academics, attain their educational goal, or transfer to a four-year educational institution. You are invited to contact TRIO in `Iliahi 113, phone 734-9553.

**Kahikoluamea** counselors and peer advisors encourage and support first-year students in their transition to college and toward the successful completion of their academic courses. Services provided include peer counseling, tutoring, academic counseling, financial aid application assistance, and connections to programs and services, `Iliahi building, phone 734-9341.

**FOOD AND DRINK:** Food and drink of any kind are not permitted in the classrooms.

**UNINVITED GUESTS/CHILDREN:** As a courtesy to your classmates as well as to your instructor, uninvited guests and children are not allowed in the classroom. Please make special arrangements for childcare. For childcare information, see Single Parents and Displaced Homemakers Program under "STUDENT SUPPORT SERVICES."

This and all other course materials are available in alternative formats upon request.