**COMPUTER SCIENCE 980-INTRODUCTION TO COMPUTER SECURITY -COURSE OUTLINE**

**Instructor:** Anna S Chiang, master degree in Computer Science  
Microsoft Certified System Engineer, CompTIA A+ and Security+

**Class Section**  
Spring 2014 section # 8027

**Class Schedule:**  
On-Line, Feb 10-June 9, course syllabus can be accessed after Feb 8 via ETUDES [www.myetudes.org](http://www.myetudes.org), see next page for login instruction.

**Office Hour:**  
Mon/Tues/Wed/Thurs 11:30 am-5:30 pm (in CE229)  
Sat afternoon by appointment only (e-mail ChiangA@wlac.edu)

**Office/e-mail:** CE 229, 310-287-4253 ChiangA@wlac.edu

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**Important and useful information**

**On campus orientation** for on-line students: Saturday, Feb 8 at 2 pm in CE105A

**UC/CSU Transfer Honor Credit** [http://www.wlac.edu/transfer/index.html#honors](http://www.wlac.edu/transfer/index.html#honors)  
(contact the instructor for honor credit)

**LACCD student’s e-mail system** [http://www.wlac.edu -> for student ->e-mail-> student can forward LACCD e-mail to another personal e-mail- click on “instruction” and “video”](http://www.wlac.edu -> for student ->e-mail-> student can forward LACCD e-mail to another personal e-mail- click on “instruction” and “video”).

**Disabled Student Service** [http://www.wlac.edu/DGPS](http://www.wlac.edu/DGPS) -students must contact DSPS office to obtain an approved accommodation request.

**Job placement assistance** see division web site [www.wlac.edu/csit](http://www.wlac.edu/csit)

**CSIT Division Web Site** [http://www.wlac.edu/CSIT](http://www.wlac.edu/CSIT) with the following useful information:  
Division announcement –scholarship and internship opportunities  
CS faculty office hour and computer lab open hour  
Petition for degree & certificate  
Job assistance for long-term unemployed, under-employed and veterans  
Discount Voucher for CompTIA A+ Network+ Security+ Linux+  
Free Software Download (Windows 7, Server 2008, VMWare, Microsoft ACCESS and Visio Studio)  
Requirement for AA/AS degree and Certificate of Achievement in the following :  
  Degree and Certificate in Computer Science (10 major courses)  
  Degree and Certificate in Computer Network and Security Management (10 major courses)  
  Degree and Certificate in Computer Web Support and Database Administration (10 major courses) Certificate of Achievement in Computer Network Management (requires 6 courses)  
  Certificate of Achievement in Information System Security (requires 6 courses)  
  Certificate of Achievement in Business Application and Database Management (requires 6 courses)  
  Certificate of Achievement in Web Support and Administration (requires 6 courses)
Faculty advisor and major declaration

Please note that students must declare a major in order to become eligible for scholarship and internship opportunities. To declare a major, please obtain the form of change request from CS division website www.wlac.edu/csit click the link on the left menu.

By default, your instructor can be the faculty advisor; please see the instructor during the posted office hour or you can make an appointment with the following fulltime faculty advisor:

Ashok Patil –Degree, transfer, and certificate in Computer Science- PatilA@wlac.edu
Anna Chiang-Degree, transfer and certificate in Computer Information Science/Computer Network and Security Management- ChiangA@wlac.edu
Marcus Butler-Microsoft, CISCO, VMWare training ButlerM@wlac.edu
Manish Patel-Degree and certificate in Web development and Database Administration- PatelM@wlac.edu

Important date to remember

Last day to drop class with a refund/no owed is Feb 21, 2014

Last day to drop class w/o a “W” is Feb 21, 2014

Last day to drop a class with a “W” is May 9, 2014

College closed on Feb 14-17, spring break April 7-13

Exclusion policy

Students who are inactive in the class may result in exclusion. However it is a student’s responsibility to drop the class. Failure to drop the class in a timely manner will result in “Failure” on the transcript.

Incomplete policy

A Student who has successfully completed more than 75% of the course at the end of semester work and has communicated with the instructor with a justifiable explanation may be considered for an incomplete grade

Course description

This course introduces the basic concepts of computer security. Students will learn a full range of security concepts & techniques and apply them to the most popular operating systems used today. The topics include: Vulnerabilities and Attacks, Cryptography, Network Infrastructure, Network Security, System Security and Application Security. This course is also designed to help candidates preparing to take CompTIA Security+ certification exam. It is one of the courses leading to AA/AS degree/Certificate in Network and Security management and AA/AS degree/certificate in Web Support and Database Administration.
Course objectives

1. Identify Threats
2. Identify Attacks and Malicious Code
3. Establish Security Baselines
4. Understand Access Control Models
5. Understand Authentication Methods
6. Understand Cryptographic algorithms
7. Use Cryptography on Files & Disks
8. Manage Digital Certificate
9. Understand Public Key Cryptographic standards
10. Understand Web, VPN and Mail Transport Protocol
11. Audit Privilege & Use Monitoring Tools
12. Protect Communication-Based Attacks
13. Harden Operating System
14. Harden Web Browser & Web Server
15. Apply Intrusion Detection System

Student learning outcome

At end of the course, the successful student will be able to explain the concepts of confidentiality, integrity, and availability. The successful student will be able to explain the fundamental concepts and best practices related to authentication, authorization and access control. The successful student will be able to identify common threats, vulnerabilities and mitigation techniques.

Certification exam and required course material

About Certification Exam
CS980 is designed to help students prepare for CompTIA Security+ and Testout Security PRO certification exam.

Students who plan to take CompTIA Security+ can contact instructional assistant Laurent Phung via PhungL@wlac.edu for a discount exam voucher.

The publisher Testout Corp offers Security Pro certification exam to students who have subscribed the course material Security PRO (see next page about purchasing the course material) at the end of semester. This certification exam must be scheduled and supervised by the instructor. Students should schedule an on-campus exam with the instructor during the final week.

Required Equipment: This class is offered 100% on-line, student must have computer with Internet connection in order to access college official course shell (ETudes) and Testout LabSim site.

Required material: Testout Security Pro SY0-301 and SSCP (DO NOT purchase Security+)
A multimedia web based E-Learning including course simulation, demo, chapter & lesson notes, lab simulation and exam simulation.

**How to purchase the course material on-line? (or see “RESOURCES” on ETUDES course shell)**

To access the student discount pricing ($89) students need to go to [www.testout.com](http://www.testout.com) and enter the promotional code **14-346ta**. This will take students to a page designed for West Los Angeles’ students. Here students will need to enter the school name **West Los Angeles College**. This will check with Testout’s database to verify if the school is authorized to purchase at this price. Because of this, it needs to be entered EXACTLY as above (including capitalizations). The student will also need to enter the instructor’s name Anna Chiang. The course material is now browser based, it works on Apple computer too. You can access the course material via **LabSim.Testout.com** without downloading client program. The program may prompt you to download Microsoft Silverlight to enhance multimedia effects.

If for any reason students need to purchase the required material from WLAC bookstore, please order it via the web site of WLAC’s bookstore [http://store450.collegestoreonline.com](http://store450.collegestoreonline.com) or contact Nilhson Zelaya in bookstore (310-287-4381).

In order for the instructor to keep track of students’ performance on lab simulation, each student must add himself or herself to **“West Los Angeles College” and “class of CS980 Spring 2014” the first time logging into the labsim.testout.com**. See instruction on the left menu “resource” of ETUDES course shell.

**Testout Product Activation Code**

Once you place the order on-line, you will receive an e-mail confirmation and product activation code in a few minutes. Please note that Testout no longer sends out DVD or LabSim manual, everything is online now.

**Publisher Information**

TestOut Corporation 1-800-877-4889 or e-mail the representative Jeff Hanks via JHanks@testout.com if you have any questions about your account.

**Testout LabSim account**

If the student has an account with Testout previously set up, the same account will be used for this class.

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**On-line course shell ETUDES login instruction**

If you are a first-time online student, please see the dates for orientation (top of page 1). To log on to on-line class, go to [http://www.myetudes.org](http://www.myetudes.org) or [www.wlac.edu/online](http://www.wlac.edu/online) where you will find links to on-line tutorial, login instructions and Technical Requirements.

Example: Juan Straub, 88-459-0210, birthday is July 4.

The Login ID will be the first 2 letters of first name plus the first 2 letters of last name plus the last 5 digit of student ID, password is birthday.

- User ID: just90210
- Password: 0704

After logging in, double click the course you are enrolled.

If you are a first-time on-line student, make sure your Browser settings are as follow:

Tools->Internet Option-general->security setting->add [www.myetudes.org](http://www.myetudes.org) or www.wlac.edu/online as a trusted site.
Student Information System

You can view your transcript, update your personal information via Student Information System. http://www.wlac.edu->register class->enter student ID and pin number.

To be eligible for scholarship and internship, students must have a major declared in Student Information System, to declare a major (e.g. Computer Network and Security Management major code 0708), see the left menu link on division web site www.wlac.edu/csit.

Email Communication

If you have a valid email address in the LACCD system, ETUDES’ instructor’s announcement will be sent to your personal email. Otherwise, you should check the instructor’s announcement when you first log on to course shell. You might want to update your email address under MyWorkspace-> Account-> Modify if you change e-mail address.

Trouble login to ETUDES

If you have trouble accessing the course on, or after, the start date visit the Online Student Help Desk at http://www.wlac.edu/online/helpdesk.asp. Click on Helpdesk Rules where your issue is likely addressed in the Frequently Asked Questions section. If not, post a message explaining the problem or contact the WLAC Distance Learning Program Office at (310)287-4305 or via email: shemwer@wlac.edu.

Class rules & guideline on assignment and test

By taking this class, you agree to follow the Class Rules listed below:

(1) Students who are inactive in the class may result in exclusion, however it is your responsibility to drop the class; failure to drop the class in a timely manner will result in “F” on your record.

(2) Cheating (or Plagiarism) on assignment/exam/project will result in “Failure”.

(3) You have to purchase the required material no later than when semester starts, those who got required material earlier can start working on the course.

You will submit assignment and exam via college official on-line site ETUDES. You must log on to ETUDES on regular basis to check the following:

Announcement- Check announcement each time after you login, important announcement will be posted.

Syllabus- Course syllabus is attached.

Course Map- Assignments and exams are listed with link based on due day.

Resources- Instruction to order the required material with Testout.

Resources- Instruction to joining a school and enrolling a class within Testout Labsim.

Resources- Orientation to ETUDES

Assignment-follow step a b c d e

a) copy the review questions to a Word document and save it as a file on your hard drive or flash drive,
b) click on "continue later",

c) when you finish the work-> save it on your local drive-> go to ETUDES-> open the assignment-> browse and upload it-> click on "finish",

d) once you click on “finish”, you can’t open and view it until the instructor releases the grade,

e) you can e-mail the instructor (chianga@wlac.edu) requesting for a re-submit if you need to.

(4) Follow the schedule to work on “Assignment” and “Test”. Do not wait until the last minute to work on assignments. Assignments submitted after the due day will receive 20-30% reductions (within one week 20%, within two weeks 30%). Assignment will not be accepted after 2 weeks late.

Tests/Exam- exams are listed by open day.

Discussion and Private Message- You can send messages to the instructor, for urgent issues, please send e-mail to Chianga@wlac.edu. The instructor checks this e-mail on regular basis.

(5) You should print every chapter and lesson “FACTS” from the Testout LabSim subject program, each chapter has several lessons, each lesson has several text outline “FACTS” which help you on the review-question-assignment and can be a study guide for exam too. For most of the review-question-assignment, you can find the answer key from the “FACTS” outlines.

(6) No make-up exam (test). Once you have viewed or taken the exam, you can’t open or re-take it. There are 6 exams plus final, follow the exam “open and close” schedule. You have one week to take the exam. Do not wait until the last minute to start the exam, use a clock when you start the exam. The exam is a timed exam, 60 minutes for 33 questions (multiple choices). THERE IS NO MAKE-UP or RE-TAKE EXAM. If there is any emergency, e-mail the instructor and schedule an “on-campus” exam within 7 days after exam expires (each student has only one opportunity to do so for one exam throughout the entire semester). This kind of making-up will receive 30% points reduction.

(7) Official test is posted on ETUDES, the study guide is the material on Testout LabSim subject course, including lecture, demo, lesson outline & facts, and exam simulation.

Testout exam and lab simulation weigh 20% of semester grade, students can practice over and over again. Exam simulation has answers and explanations which help build your knowledge base. This is for practice and for study guide before taking the Official Test in ETUDES as described earlier. Answer key can be reviewed after one week from the test due date. The step-by-step explanation to complete the lab simulation can be printed by starting the lab and clicking on “done”. Lab simulation and exam simulation must reach 80% and above to earn the full credit.

(8) Based on students’ experiences, you should take exam as soon as you complete the assignment, since you have gone through all the material completing the assignment, the memory is still fresh.

(9) CE101 is open to CSIT students; please check the division web site www.wlac.edu/csit for lab open hour.

(10). Being a member of Microsoft & VMWare Academic Alliance, the enrolled students can download VMWare, Microsoft operating system (Windows 7 & Server 08) and development tool (Microsoft application like ACCESS not the entire OFFICE suite, Visual Studio) for free, please visit division website www.wlac.edu/csit and click on the left menu to make request, or contact IA Laurent Phung via PhungL@wlac.edu.
(11). CS dept. is member of CompTIA education alliance, students can take A+, Network+, Security+ with discount voucher, please contact Laurent Phung via PhungL@wlac.edu or visit division website www.wlac.edu/csit under FAQ.

(12). All other school & class rules will be enforced.

**Grading:**  
Exams -35%  
Lab & Exam Simulation-20%  
ETUDES Assignments-35%  
Final-10%

**Preliminary Schedule of Lectures/Assignments/Exams**

The deadline of assignments and exams may change and will be posted via ETUDES, please pay attention to the deadline of Assignments and Tests posted on WLAC ETUDES.
<table>
<thead>
<tr>
<th>Testout Module#</th>
<th>Etudes Review Question Testout Lab Simulation</th>
<th>ETUDES Test due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter #1-Introduction</td>
<td></td>
<td></td>
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<tr>
<td>Chapter #2-Access Control only</td>
<td>Assignment C#1 &amp; 2 due Feb 16</td>
<td>Exam C#1 &amp; 2 due Feb 23</td>
</tr>
<tr>
<td>Chapter #3-Cryptography</td>
<td>Assignment C#3 due March 2</td>
<td>Exam C#3 due March 9</td>
</tr>
<tr>
<td>Chapter #4-Policy &amp; Procedures Organizational Security</td>
<td>Assignment C#4 due March 16</td>
<td>Exam C#4 due March 23</td>
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<tr>
<td>Chapter 5-Physical Security</td>
<td>Assignment C#5 due March 30</td>
<td>Exam C#5 due April 6</td>
</tr>
<tr>
<td>Chapter 6-Perimeter Defense</td>
<td>Assignment C#6 due April 13</td>
<td>Exam C#6 due April 20</td>
</tr>
<tr>
<td>Chapter #7-Network Defenses</td>
<td>Assignment C#7 due April 27</td>
<td>Exam C#7 Due May 4</td>
</tr>
<tr>
<td>Chapter #8-Host Defense</td>
<td>Assignment C#8 due May 11</td>
<td>Exam C#8 due May 18</td>
</tr>
<tr>
<td>Chapter #9-Application defense</td>
<td>Assignment C#9 due May 25</td>
<td>Exam C#9 due June 1</td>
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<tr>
<td>Chapter #10-Redundance</td>
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<td>Final exam on C#10 June 8</td>
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College policies

**Academic Integrity (Plagiarism)**
In accordance with code 9803.28, academic dishonesty is prohibited and will not be tolerated in this class. Violations of academic integrity include, but are not limited to, the following actions: cheating on an exam, plagiarism, working together on an assignment, paper or project when the instructor has specifically stated students should not do so, submitting the same term paper to more than one instructor, or allowing another individual to assume one’s identity for the purpose of enhancing one’s grade. Academic dishonesty of any type, such as cheating or knowingly furnishing false information, by a student provides grounds for disciplinary action by the instructor or college. In written work, no material may be copied from another without proper quotation marks, footnotes, or appropriate documentation.
- **Plagiarism will result in a zero for the assignment, possible dismissal from the class and disciplinary action from the college.**

**Student Conduct**
According to code 9803.15, disruption of classes or college activities is prohibited and will not be tolerated. Refer to the catalog and the Standards of Student Conduct in the Schedule of Classes for more information.

**Recording Devices**
State law in California prohibits the use of any electronic listening or recording device in a classroom without prior consent of the instructor and college administration. Any student who needs to use electronic aids must secure the consent of the instructor. If the instructor agrees to the request, a notice of consent must be forwarded to the Vice President of Academic Affairs for approval.

For more information refer to the attached link:

**Campus resources:**
As stated earlier in this syllabus, if you are having problems, don’t let them snowball. Come and talk with me and check out some of the campus resources available to you.

**Office of Disabled Student Programs and Services (DSP&S)**
Heldman Learning Resources Center (HLRC), Room 119 | (310) 287-4450.
West Los Angeles College recognizes and welcomes its responsibility to provide an equal educational opportunity to all disabled individuals. The Office of Disabled Students Programs and Services (DSP&S) has been established to provide support services for all verified disabled students pursuing a college education. DSP&S students may qualify for: priority registration, registration assistance, special parking permits, sign language interpreters and assistive technology.

**Instructional Support (Tutoring) & Learning Skills Center**
Improve your reading, language, vocabulary, spelling, math fundamentals and chemistry knowledge with convenient, self-paced computer-aided courses in the Learning Skills Center. Increase your knowledge and learning success: sign up for tutoring in various college subjects.

**Library Services**

The WLAC Library provides instruction on how to use the online catalog, periodical and research databases. In addition to a large collection of books, periodicals and videos the WLAC Library has course textbooks which students may use while in the Library. Web access is available in LIRL as well as meeting rooms. The upper floors provide a beautiful view ideal for study.

*for more information refer to attached link:*