



COMPUTER SCIENCE & OFFICE TECHNOLOGY DIVISION

CSIT 992 - COMPUTER A+ HARDWARE LABORATORY

SECTION #0740 – FALL 2013

Course Length: 16 Weeks – August 26th, 2013 to December 15th, 2013
(Class runs from August 30th to December 14th, 2013)

Instructor: Mr. Kabwe Chanda

E-Mail: chandaki@lavc.edu

Class Format: Saturdays

1:00pm – 1:20 pm..... Homework and Lab overview (CE 104)

1:20pm – 2:00 pm..... Lecture (CE104)

2:05 pm – 3:00 pm Lab (CE101)

Office Hours: 12-1:00pm (CE 101)

College Web Site: <http://www.wlac.edu> for all student-related services

Important Dates to Remember

Academic Calendar

Deadline to add a class – September 6th, 2013 (August 25th Online)

Drop a Class without a fee – September 6th, 2013

Drop a Class without a "W" – September 6th, 2013

Drop a class with a "W" – November 15th, 2013

Last day to file for graduation – November 15th, 2013

Campus Closed/no class:

Labor Day: **September 2nd, 2013**

Veterans Day: **November 11th, 2013**

Thanksgiving: **November 28th – December 1st**

Welcome

This Semester, you will develop skills necessary to troubleshoot computer hardware and prepare for the A+ Certification. The CompTIA A+ certification is the starting point for a career in IT. The exams cover maintenance of PCs, mobile devices, laptops, operating systems and printers.

Course Description:

The rapid expansion of the computer industry has generated a growing need for highly skilled workers to repair, network, and support these increasingly complex computer systems. Employment of computer specialists is expected to increase much faster than average as technology becomes more sophisticated and organizations continue to adopt and integrate these technologies. This field requires the specialist to continually learn new skills to keep pace with the rapidly changing industry.

This class will explore basic electronics concepts needed to troubleshoot and repair all aspects of personal computers. In this class we will develop skills such as installation of hard drives, interface cards, network cards, monitors, keyboards, modems, etc. Operating systems will be installed to insure system operation.

Required Text:

Testout PC Pro 220-801 and 220-802 ISBN#978-1-935080-42-8

PLEASE NOTE: Do not purchase the old version A+ 701/702 which will expire in August 2013

The bundled subject will be used for CS934 & 992, note that students must enter the right promotion code 14-346ta to get the bundled two subjects for total \$89.

For exam discount vouchers to sit for CompTIA A+ certification exams, please see division web site www.wlac.edu/csit.

Required Material:

1. Access to a computer with internet access.
2. Login to free online module Etudes

How to purchase Testout LabSim

To access the student pricing (\$89, access is valid for 3 years), go to

1. www.testout.com
2. Promotional code = **14-346ta**
(This will take you a page designed for West Los Angeles College Students, you will need to enter the school name)
3. School name = **West Los Angeles College** (Case Sensitive)
4. Instructor name = **Kabwe Chanda**

The program may prompt you to download Microsoft Silverlight to enhance multimedia effects.

- The course material is browser based
- Works for both PC and MAC

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> or contact Nilhson Zelaya in bookstore (310-287-4381).

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 now online.

After you purchase and successfully sign on to your TestOut Labsim account, add yourself to "**CS992 Fall 2013**" class before you begin the course work. . See instructions on the left menu "resource" of ETUDES course shell.

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 had previously set up an account with TestOut, the same account will be used for this class;

<http://labsim.testout.com>

The screenshot shows the TestOut website interface. At the top left is the TestOut logo. To the right are links for Cart, Log In, and a phone number (1-800-877-4889), along with a Live Chat button. Below this is a navigation bar with links for Certification, IT Certification Training, Educator Resources, Purchasing, Support, and About, followed by a search bar. The main content area is divided into three columns. The left column has 'Related Links' and 'Downloads' sections. The middle column is titled 'TestOut's LabSim Access' and contains text about logging in to access courseware, a note about valid licenses, and lists of Cisco and CompTIA products with their respective LabSim descriptions. The right column contains a login form with fields for Username and Password, a Log In button, and links for Login Help and Create an Account.

Product ID	Product Name
640-802	LabSim for Cisco Certified Network Associate
220-701	LabSim for A+ Essentials, including TestOut PC Pro Certification exam
220-702	LabSim for A+ Practical Application, including TestOut PC Pro Certification exam

On-line course shell ETUDES

Class material, announcements and homework and exams will be posted on the online shell (Etudes)

login instruction : <https://myetudes.org>



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 in.

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 or www.wlac.edu/online as a trusted site.

Trouble logging in 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@wlab.edu.

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.

In Etudes you will find

Announcements- Please check this area periodically for update class information and news.

Syllabus-This syllabus will be updated periodically

Resources- In this section you will find TestOut material ordering information

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

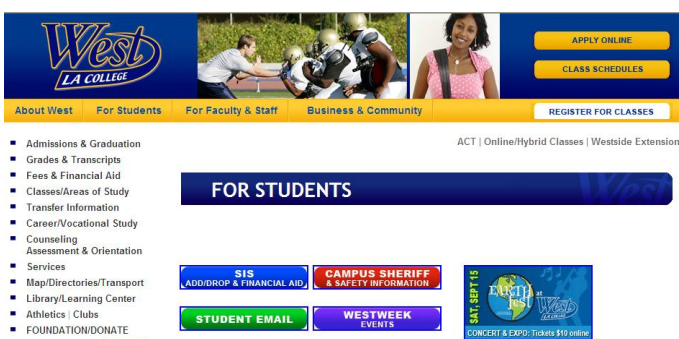
Resources- Orientation to ETUDES

Modules – Lecture Notes

Assignments Tests and Surveys – Homework due every week, Lab grades posted here, etc

Student Information System (SIS)

<http://www.wlac.edu> → For Students → SIS tabs.



- Check Grades
- Get unofficial transcripts
- Register for classes
- Drop classes
- Etc.

Other classes needed to help you prepare for Certification

CS 934 - Covers basic to intermediate topics in OS (XP/Vista/Windows 7) A+

CS 965 - Covers network hardware components and devices, wired and wireless, LAN & WAN standards and protocols, network implementation & security A+ & N +

Student Objectives

Upon completion of this class students will be able to:

- ✓ Understand computer Safety and Maintenance
- ✓ Effectively use the tools required for computer repair
- ✓ Identify the components of a computer
- ✓ Recognizing various symptoms to aid in diagnosing computer problems
- ✓ Install & upgrade computer components (RAM, Hard drives, CD/DVD drives, expansion cards, etc)
- ✓ Test, troubleshoot and install power supplies
- ✓ Install motherboards, troubleshoot and install the CPU,
- ✓ Understand networking devices and techniques of connecting to them

Institutional Learning Outcomes

This course will also facilitate the following Institutional Learning Outcomes:

- ❖ Technical Competence: Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.

Course Requirements

Homework

There is a homework assignment posted in Etudes after each class meeting. Homework assignments open after each class meeting unless otherwise specified. Homework is due at the beginning of the next class meeting.

Lab Assignments

There is lab after most class meetings unless otherwise specified.

Late Assignments

There is – 5 points for each week missed (Maximum or -15points).

To take after the due date, send a private message in Etudes clearly specifying the homework number.

There is no penalty for doing labs late. All labs must be completed by the last day of instruction. *(Make an effort to do the labs the day they are assigned to keep pace with the class.)*

Grading:

10 Homework's @ 25 points each.....	250 points
10 Labs @ 20 Points each	200 points
Final	50 points
Total	500 points
Minimum points for credit	350 points

Class Policies

- ❖ Please turn off all cell phone ringers
- ❖ If you have to take a call please take the call outside
- ❖ NO FOOD or DRINKS allowed in the classroom or computer lab
- ❖ Keep your work area clean
- ❖ During lab, check out equipment from the two designated cabinets near Mr. Laurent Phung office in CE 101
- ❖ After lab return all checked out materials
- ❖ After lab store all computers under the table and return, keyboards, mouse, cables etc.

Exclusion Policy

Two or more missed of any combination of class, lab, or homework before February 16th, 2013 will result in **exclusion** unless you are permitted by the instructor.

It is your responsibility to drop the class. Failure to drop the class in a timely manner will result in a “W” or “F” on your transcript.

Incomplete Policy

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

Contacting Me

1. E-mail is the best and quickest way to contact me
2. You can also see me during office hours

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.

- o Plagiarism will result in a zero for the assignment, possible dismissal from the class and disciplinary action from the college. You will not receive credit for any essay missing previous drafts, citations and/or a Works Cited page.

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 (WLAC College Catalog).

For more information refer to the attached link:

http://www.wlac.edu/academics/pdf/WLAC_10-12Catalog_Policies.pdf

Campus Resources

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 (WLAC College Catalog).

Instructional Support (Tutoring) & Learning Skills Center

Heldman Learning Resources Center (HLRC) | (310) 287-4486

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 (WLAC College Catalog).

Library Services

Heldman Learning Resources Center (HLRC) | (310) 287-4269 & (310) 287-4486

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 (WLAC College Catalog).

For more information refer to attached link:

http://www.wlac.edu/academics/pdf/WLAC_10-12Catalog_Services.pdf

TENTATIVE COURSE OUTLINE:

Week 1 (August 31st, 2013)

1. Orientation & Certification overview
2. Lecture - Safety & environmental concerns

Week 2 (September 7th, 2013)

1. Homework #1 review
2. Lecture – **BIOS/ CMOS**
3. **Lab #1**– Hardware components common in the computing world

Week 3 (September 14th, 2013)

1. Lab #1 & Homework #2 review
2. Lecture – **Motherboard components, types and features**
3. **Lab #2** – BIOS/CMOS

Week 4 (September 21st, 2013)

1. Lab #2 & Homework #3 review
2. Lecture – **CPUs, CPU features & Cooling and Power**
3. **Lab #3** – Motherboard components

Week 5 (September 28th, 2013)

1. Lab #3 & Homework #4 review
2. Lecture – **Memory**
3. **Lab #4** – Power

Week 6 (October 5th, 2013)

1. Lab #4 & Homework #5 review
2. Lecture – **Storage devices**
3. **Lab #5** – Memory

Week 7 (October 12th, 2013)

1. Lab #5 & Homework #6 review
2. Lecture – **Cards, Peripherals, input devices, Display devices and their characteristics, Customer Service**
3. 'NO LAB'

Week 8 (October 19th, 2013)

1. Homework #7 review
2. Lecture – **Networking Part I**
3. 'NO LAB'

Week 9 (October 26th, 2013)

1. Homework #8 review
2. Lecture – **Networking Part II**
- Lab #6** – Cat 5e/6 Wire Assembly

Week 10 (November 2nd, 2013)

1. Lab #7 & Homework #10 review
2. Lecture – **Troubleshooting, Repair and Maintenance**
3. **Lab #7** - CPU

Week 12 (November 16th, 2013)

1. Lab #8 Setup overview
2. **Lab #8** - Building a Computer System – (Hardware Assembly)

Week 13 (November 23rd, 2013)

3. Lab #8 Setup overview
4. **Lab #9** - Building a Computer System – (OS Installation)

Week 10 (November 2nd, 2013)

1. Lab #6 & Homework #9 review
2. Lecture – **Printing**

Week 14 (November 30th, 2013)

** **HOLIDAY** – *Thanksgiving*

Week 15 (December, 7th 2013)

1. **Mock Certification Exam #1**
2. **Lab #10** – Networking. / Open Lab (Lab Makeups, personal computer repair-assessment, etc.)

Week 16 (December 14th, 2013)

1. Final Exam (**Etudes**)

Testout PC Pro A+ 220-801 and 220-802

	Topic	PC Pro Sections
Week 1	Lecture - Safety & environmental concerns	1.1-1.4, 2.1-2.5
Week 2	BIOS/ CMOS	3.6
Week 3	Motherboard components, types and features	3.1, 3.2, 3.3, 3.4, 3.5
Week 4	CPUs, CPU features & Cooling and Power	3.10,
Week 5	Memory	3.5
Week 6	Storage devices	5.1-5.10
Week 7	Cards, Peripherals, input devices, Display devices and their characteristics, Customer Service	3.7, 3.8, 3.9, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6
Week 8 & 9	Networking	6.1-6.4, 6.9-6.11
Week 10	Troubleshooting, Repair and Maintenance	13.1-13.4, 13.9-13.11
Week 11	Printing	7.1-7.5

Division Web Site: <http://www.wlac.edu/CSIT> where you will find:

Division Announcements –Scholarship and Internship Opportunities

Computer Science Instructor Office Hours

Computer Lab Schedule

Information on Petition for Prerequisite Challenge, Degree & Certificate Petition Information

Information on discount vouchers for CompTIA A+ Network+ Security+ Linux+

Free Software Download (Windows 7, Server 2008, VMWare, Microsoft ACCESS and Visio Studio)

Requirement for AA/AS degrees 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 in Etudes.

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 - PatilA@wlab.edu

Anna Chiang-Degree, transfer and certificate in Computer Information Science/Computer Network and Security- ChiangA@wlab.edu

Marcus Butler-Microsoft, CISCO, VMWare training - ButlerM@wlab.edu

Manish Patel-Degree and certificate in Web development and Database Administration - PatelM@wlab.edu