

# CSC 116 – Computer Hardware and Tools

## Fall 2016

<b>Instructor</b>	G. Poppe	<b>E-Mail</b>	gpoppe@csudh.edu
<b>Classroom</b>	SCC-800	<b>Class Time</b>	MoWed 1:00PM-2:15PM
<b>Office</b>	Lib-5717	<b>Office Hours</b>	Wed 10:15AM-11:15AM
<b>Phone</b>	(310) 243-3398	<b>URL</b>	http://csc.csudh.edu

### CATALOG DESCRIPTION:

The goals of this course are to enable the student to identify the major components used in a modern computer and the tools and diagnostics used to identify and repair failing components.

### PRE-REQUISITES

None

### TEXTBOOK

Title: A+ Guide to Hardware, 9th Edition ISBN-13: 978-1-305-26645-2

### REFERENCE:

TBA

### COURSE GOALS:

- Identify and use tools and diagnostic hardware and software
- Identify and explain the computer boot process
- Identify the major components of a modern computer system
- Use proper techniques to troubleshoot a failing computer system
- Understand printing and networking.

### SPECIFIC INSTRUCTIONAL GOALS:

The purpose of the course is to provide the student with the knowledge to pass the CompTIA A+ certification.

### COURSE OUTCOMES:

Upon completion of this course, students will be able to:

- Describe and install the hardware and software required to be able to communicate across a network.
- Describe, compare and contrast network communications using two examples of layered models.
- Describe the physical, electrical, and mechanical properties and standards associated with copper media used in networks.
- Describe the physical, electrical, and mechanical properties and standards associated with optical media used in networks.
- Describe the standards and properties associated with the transmission and reception of wireless signals used in networks.
- Describe the principles and practice of switching on an Ethernet network.

\* Explain the issues associated with the transmission of signals on networking media

### ATTENDANCE:

Students are expected and encouraged to attend lectures and contribute to discussions. It is the student's responsibility to contact the instructor as early as possible if he/she cannot attend class. There will be no make-up opportunities, although all classes will have companion videos available on line.

The student is responsible for materials missed during an absence, whether excused or not. Classes will start at the prescribed time and will end at the prescribed time. Instructor will be available during the posted office hours and you may make an appointment for times not posted.

### GRADING BREAKDOWN:

Homework/quiz	45%
Midterm Exam	25%
Final Exam	30%
	100%

### **Evaluation criteria explained:**

- Students are expected to be active participants in each class meeting. Full credit for participation will be extended to students who regularly ask questions, share observations, and contribute relevant personal experiences.
- The mid-term examination will consist of objective questions and will require a technological comprehension that covers the lecture material and assigned readings.

The assignments will consist of a number of individual in class and homework tasks.

Students will be given specific guidance on the amount of collaboration permitted for each assignment. Unless otherwise specified, all assignments are individual assignments, and thus must be completely the original work of the student submitting them and include proper citations to the published work of others.

### **Quizzes:**

Quizzes may be given throughout the semester, at a rate of approximately 1 per chapter. Quizzes will always cover the material covered since the last Quiz or Exam. The quizzes will be combinations of objective and short-answer questions. Quizzes will be administered online via Blackboard. Makeup quizzes will not be given. However, the lowest quiz grade will be dropped. Any class material missed by the student is the student's responsibility to acquire.

### **GRADING SCALE:**

96-100 = A	90-95 = A-	87-89 = B+	83-86 = B	80-82 = B-	
77-79 = C+	73-76 = C	70-72 = C-	67-69 = D+	63-66 = D	below 60 = F

### **GENERAL POLICIES:**

#### ***ACADEMIC HONOR CODE***

Programming assignments must be done individually. Failure to do so will result in a violation of the CSUDH Academic Honor Code. The following cases will be considered as violations: identical code, and extremely similar code. Violations will be reported to the Office of Vice President of Academic Affairs. Disciplinary action will be taken against any student who alone or with others engages in any act of academic fraud or deceit (Read University Regulations in University Catalog). It is the student's responsibility to ensure they fully understand to what extent they may collaborate or discuss content with other students. No exam work may be performed with the assistance of others or outside material unless specifically instructed as permissible. If an exam or assignment is designated "no outside assistance" this includes, but is not limited to, peers, books, publications, the Internet and the WWW. If a student is instructed to provide citations for sources, proper use of citation support is expected.

#### ***ATTENDANCE POLICY***

Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class.

#### ***STUDENT ACADEMIC APPEALS PROCESS***

Authority and responsibility for assigning grades to students' rests with the faculty. However, in those instances where students believe that miscommunication, error, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

#### ***ADA STATEMENT***

Students with disabilities, who believe they may need an academic adjustment in this class, are encouraged to contact me as soon as possible to better ensure receipt of timely adjustments.