



Basic Course Information

Semester:	Spring 2023	Instructor Name:	Zambrano, William
Course # and Title:	CIS 160: Computer Hardware and Software	Email:	William.zambrano@imperial.edu
CRN #:	20420	Webpage (optional):	
Classroom:	901	Office #:	901, Email, or Zoom
Class Dates:	2/13/2023 – 6/09/2023	Office Hours:	M: 4pm-6pm/TR: 10am&1-2pm, Zoom, and Email. *Subject to change.
Class Days:	MW	Office Phone #:	Use Email
Class Times:	8:00am-9:25am	Emergency Contact:	Department Secretary 760-355-6361
Units:	4	Class Format:	In-Person

Course Description

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level ICT professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional will be introduced. Course is preparation for the CompTIA A+ certification exams and utilizes CISCO academia.

Course Prerequisite(s) and/or Corequisite(s)

N/A

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and/or attitudes as demonstrated by being able to: Install, deploy, configure, repair, and manage a Windows client project using current industry software, hardware, and standards.

Course Objectives

1. Define information technology and describe the components of a personal computer.
2. Protect herself or himself against accidents and injury, protect equipment from damage, protect data from loss, and protect the environment from contamination.
3. Perform a step-by-step assembly of a desktop computer tower
4. Explain the purpose of preventive maintenance and identify the elements of the troubleshooting process.
5. Explain, install, and navigate an operating system; upgrade components based on customer needs and perform preventive maintenance and troubleshooting.
6. Describe, remove, and replace select components of a printer/scanner; perform preventive maintenance and troubleshooting.
7. Describe, remove, and replace select components of a laptop; upgrade components based on customer needs and perform preventive maintenance and troubleshooting.
8. Describe and install a network; upgrade components based on customer needs and perform preventive maintenance and troubleshooting.



9. Perform advanced installation of a desktop computer tower; select components based on customer needs and perform preventive maintenance and troubleshooting.
10. Upgrade security components based on customer needs and perform preventive maintenance and troubleshooting.
11. Apply good communication skills and professional behavior while working with customers.

Textbooks & Other Resources or Links

Cisco. *IT Essentials Companion Guide v7*. ISBN: 9780135645376

Course Requirements and Instructional Methods

Class Activity
Hands-On Labs
Quizzes, Mid-Term/Final Exam(s)
Written Assignments

Course Grading Based on Course Objectives

Grade	Points
A	900-1000
B	800-899
C	700-799
D	600-699
F	0-599

Points possible	Assignment/Assessment	Details
100	Discussions	10 points each X 10 discussions
100	Assignments	10 points each X 10 assignments
200	Quizzes	20 points each X 10 assignments
600	Exams	150 points each X 4 exams

Course Policies

Refer to the college catalog for attendance and academic honesty policies.



IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

Week	Activity, Assignment, and/or Topic	Due Dates/Tests
1	Syllabus & Introduction, Weekly Discussion and Assignment.	February 13, 2023
2	Syllabus & Introduction Lecture, Weekly Discussion and Assignment.	Weekly Online Submissions
3	Course Objective 1 Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
4	Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
5	Course Objective 2 Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
6	Course Objective 3 Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
7	Lecture, Hands-On Lab,	Weekly Online Submissions
8	Course Objective 4 Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
9	Course Objective 5 Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
10	Lecture, Hands-On Lab,	Weekly Online Submissions
11	Course Objective 6 Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
12	Course Objective 7 Lecture, Hands-On Lab, Weekly Discussion and Assignment.	Weekly Online Submissions
13	Lecture, Hands-On Lab	
14	Hands-On Lab	
15	Hands-On Lab	
16	Hands-On Lab	
17	Final Exam	Last Week: June 5-9, 2023

Subject to change without prior notice