

Dixie State College
St. George, Utah
CJ 2500 Hardware Basics
Fall 2012 (August 20th - December 14th)

Class Details

Credit Hours: 3.00
Location: Unv Plaza D RM 201

Class Hours: TR 2:30-3:45
Prerequisite: None

Instructor

Gary Cantrell
Email: cantrell@dixie.edu
Phone: 435.879.4422

Office: University Plaza D Upstairs
Office Hours: MW 10:00 - 12:00,
TR 1:00 - 2:00
(or by appointment)

Course Description

Introducing basic hardware and software using lecture and hands-on, practical application. Successful completion of the course prepares students to pass the A+ certification exam, the standard in foundational, vendor-neutral computer certification.

There are no additional fees for this course, and this course does not hold GE status.

Course Materials

"Managing and Troubleshooting PCs," Third Edition, Mike Meyer
ISBN-10: 0071713808
ISBN-13: 978-0071713801

Various articles and white papers as assigned by instructor

Program Goals

The Criminal Justice Program helps students who are seeking a career in law/law enforcement develop the skills and motivation necessary to succeed in a career in law enforcement. Students seeking a degree(s) in Criminal Justice/Integrated Studies will receive an education in the following areas, which include, but are not limited to the following: how to examine procedural requirements for the judicial processing of criminal offenders; rights of the accused; general court procedures, trial preparation; laws of evidence; crime scene investigation; corrections; juvenile delinquency/justice; ethical decision making; how to develop writing/problem solving skills through oral argument and writing; how to develop critical thinking skills; and a general understanding of constitutional law.

Course Objectives

Almost every job today requires a certain familiarity with computers. Thus, this course is designed to provide students with an introduction to hardware basics in an effort to increase their capabilities with computer systems. This course is designed around the A+ certification exam. On completion students will:

1. Be prepared for the CompTIA A+ certification examination.
2. Be able to explain the basic components of a computer system and how they work together.
3. Be able to perform basic PC troubleshooting repair and maintenance.
4. Have a deeper understanding of the work of computer systems.

Pre and post tests will be given to evaluate the level of success in meeting these goals.

Course Policies

The following general course policies apply to this course. Deviation from these policies is unlikely, but the instructor is not unreasonable. Please feel free to discuss your situation if you have an issue that needs resolving.

1. Important information, homework submission, and quizzes will be handled at the beginning of class, and class will begin at the assigned time whether you are there or not.
2. Cell phone use during class is prohibited. Any student whose cell phone goes off will be asked to leave for that day. Continual violations of this policy will result in removal from class.
3. Texting in class is obvious and very rude. It will be considered cell phone use. See the above rule pertaining to cell phone use.
4. There will be no penalty for make up tests scheduled ahead of time, but student must have a very valid reason for needing a make up test.
5. Non-pre-scheduled make up tests will only be offered in the case of emergencies and will cost student a letter grade on the test.
6. No make up quizzes will be offered.
7. Late assignments will receive a deduction of 20% per day including weekends and holidays. An assignment is considered late once the instructor has completed collecting them.
8. Students are expected to attend all class sessions. It will be up to the student to get information missed due to a non-pre-scheduled absence. In my classes there is a direct correlation between attendance and grades.
9. Instructor has a zero tolerance policy for cheating. Any incidents of cheating will result in a failing grade for the assignment and possible disciplinary action according to DSC policy.
10. Students are expected to be active listeners. There is no reason for computer use for other than taking notes during a lecture, and putting one's head down during a lecture is rude. If you are feeling sleepy during class, you are welcome to stand at

the back of the room for a while. This will not be considered rude or pointed out by the instructor.

Challenge Projects

Optional extra credit projects may be given throughout the semester. These will be assigned at the discretion of the instructor and no other extra credit will be offered. These projects will be designed to provide a deeper understanding of course topics, and typically provide replacement points. The instructor strongly encourages students to take advantage of these opportunities to offset any absences they might have.

Grade Challenges

A student may challenge the number of points given on a test or quiz question if they provide the challenge in a written format. The following rules apply to a challenge.

1. Challenge explanation limited to one page per question challenged
2. Challenge must be made 7 days from when student was first provided grade
3. Challenge packet must contain the original assignment submission
4. Challenge can only be made once per question
5. Student must provide a complete and valid reference for any materials they wish to use backing up their challenge
6. Most importantly challenge must explain in detail why the original answer deserves more points not an excuse as to why the student missed the question (“My dog ate my notes and I was unable to study.” is not a valid challenge)

Grading Scheme

		<u>Points</u>	<u>Grade</u>
Midterm	100 points	372 >=	A
Final	100 points	360 – 371	A -
Homework	100 points	344 – 359	B+
Quizzes/Exercises	100 points	332 – 343	B
		320 – 331	B-
		303 – 319	C+
		292 – 302	C
		280 – 291	C-
		240 – 279	D
		< 240	F

Other Useful Information:

College approved absences: Dixie College Policy explains in detail what needs to happen if you anticipate being absent from class because of a college-sponsored activity (athletic events, club activities, field trips for other classes, etc). Please read this information and follow the instructions carefully! The policy can be found at: <http://www.dixie.edu/humanres/policy/sec5/523.html>

Dmail: Important class and college information will be sent to your Dmail account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

Important DSC dates to remember (for course dates, see schedule on the course website):

Mon, Aug 20	Classwork starts
Thurs, Aug 23	Last day to wait list
Fri, Aug 24	Last day to add without a signature
Mon, Aug 27	Drop/Audit fee begins (\$10 per class)
Mon, Sep 3	Labor Day (no classes)
Tue, Sep 4	\$50 Late registration/payment fee
Mon, Sep 10	Last day for refund
Mon, Sep 10	Pell Grant Census
Mon, Sep 10	Last day to drop without a "W" grade
Tues, Sep 11	Classes dropped for nonpayment
Fri, Sep 14	Last day to add/audit classes
Fri, Sep 28	Last day to apply for graduation
Wed, Oct 10	Midterm grades due
Thurs & Fri, Oct 11-12	Semester break
Mon, Oct 15	Last day to drop individual classes
Fri, Nov 9	Last day for complete withdrawal
Tue, Nov 13	Career Day (no classes before 4 pm)
Wed-Fri, Nov 21-23	Thanksgiving break (no classes)
Fri, Dec 7	Last day of classes
Mon-Fri, Dec 10-14	Final exams

Disability Accommodations: Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located in the North Plaza Building. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

College resources: Several college resources are available to help you succeed. Check out the links for each one to get more information.

If you need help understanding the content of your courses, go to the Tutoring Center located on the 4th floor of the Holland Centennial Commons in Room 431. You can visit them online at <http://dsc.dixie.edu/tutoring/>

If you need help writing papers, go to the Writing Center on the fourth floor of the Holland Centennial Commons in room 421. You can also visit them online at http://new.dixie.edu/english/dsc_writing_center.php

If you need to use a computer to do schoolwork on campus, go to the Smith Computer Center or in the Dixie College library on the second, mezzanine, or third floors of the HCC.

If you are assigned to take a test in the Testing Center, go to the North Plaza. You can get information on their website at <http://new.dixie.edu/testing/>

The Library has all kinds of information and resources. Visit the Dixie State College Library on the 2nd, and 3rd floors of the Holland Centennial Commons, or go to the library website at <http://library.dixie.edu/>

Classroom expectations: It is the responsibility of an instructor to manage the classroom environment to ensure a good learning climate for all students. This means not talking when the teacher is talking, following instructions, and speaking and acting respectfully to the professor and fellow students. If your behavior is disruptive, I will first let you know verbally that you are behaving inappropriately. If it continues, I will send you written notice that your behavior must change. As a last resort, I will drop you from the class. For more details, please see the disruptive behavior policy at: <http://www.dixie.edu/humanres/policy/sec3/334.html>

Academic integrity: I believe that most students are honest, and I don't want to punish everyone for the few that aren't. However, I will not tolerate cheating, and if I discover that it has occurred, a zero grade will be given for that assignment or exam, and you will not be allowed to make it up. Repeated or aggravated offenses will result in failing the course. Any time you take credit for work you did not do, you are cheating. This includes getting the answers to homework problems from someone else, copying information

from a library or internet source and presenting it as if it were your own words (plagiarism), looking at someone else's answers on an exam, and asking someone who has already taken a test about what questions it contains. I have tried to design assignments and exams to minimize the temptation to cheat, but it is not my job to prevent you from cheating. If you cheat and are not caught, it doesn't mean that you "beat the system." It means you violated the Student Code and forfeited your integrity, whether or not you are caught. You will pay the price, sooner or later. (See "Student Code" <http://www.dixie.edu/humanres/policy/sec5/533.html#appeals>).

Course Outline:

Week 1	Introduction and Syllabus Review Chapter 1: The Path of the PC Tech Chapter 2: Operational Procedures
Week 2	Chapter 3: The Visible PC Chapter 4: Understanding Windows
Week 3	Chapter 5: MicroProcessors
Week 4	Chapter 6: RAM Chapter 7: BIOS and CMOS
Week 5	Chapter 8: Expansion Bus Chapter 9: Motherboards
Week 6	Chapter 10: Power Supplies Chapter 11: Hard Drive Technologies
Week 7	Chapter 12: Implementing Hard Drives
Week 8	Chapter 13: Removable Media Midterm Examination
Week 9	Chapter 14: Installing and Upgrading Windows Chapter 15: Working with the Command-Line Interface
Week 10	Chapter 16: Securing Windows Resources Chapter 17: Maintaining and Troubleshooting Windows
Week 11	Chapter 18: Input/Output Chapter 19: Video
Week 12	Chapter 20: Multimedia Chapter 21: Portable Computing
Week 13	Chapter 22: Printers Chapter 23: Local Area Networking
Week 14	Chapter 24: Wireless Networking Chapter 25: The Internet
Week 15	Chapter 26: Securing Computers Chapter 27: The Complete PC Tech
Week 16	Open Lecture Final Examination