

CENTER FOR INNOVATIVE TECHNOLOGIES  
MASTER COURSE DOCUMENT

### CSA 213 Computer Repair 3

**Course Description:** A continuation of CSA 112. Topics include: specialized hardware, peripheral devices, system optimization, driver installation, internet connectivity, and printer maintenance.

**Prerequisites(s):** CSA 112

**Co-requisite(s):** None

Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Lab Fee: 105	Supplemental Fee: 0	Purpose:
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)	<input type="checkbox"/> Transfer Module Course (TM)	
Course Format: Lecture/Lab		Grading: A/B/C/D/F/I
Delivery Method: <input type="checkbox"/> Web <input type="checkbox"/> Hybrid <input type="checkbox"/> Classroom		
Semesters Offered: <input type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer		

**Course Primary Text:**

Title: Upgrading and Repairing Pcs	Edition: 21st
Author(s): Meuller	
Publisher: Que	

**Supplemental Materials:**

Lab computers and peripheral devices
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**Course Outcomes:**

1	The student will be able to apply knowledge, skills and abilities in basic theory, operation, and fault diagnosis of personal based computer systems.
2	The student will be able to apply knowledge, skills, and abilities in basic theory, operation, and fault diagnosis of peripheral devices.
3	The student will demonstrate the ability to communicate technical information.
4	The student will demonstrate a commitment to quality, timeliness, and continuous improvement.

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**Course Topics:**

Week 1	Review of latest technology CPU, Memory, system boards and interfaces
Week 2	Windows installation trouble shooting service pack installations and quality control
Week 3	Laptops, notebooks, tablets, their components, assembly, and repair
Week 4	Laptops, notebooks, tablets, their components, assembly, and repair
Week 5	Exam
Week 6	All in one computer systems their components and assembly issues
Week 7	Printers and their components Impact, Inkjet, Laser monochrome and color
	All in one Setup and maintenance
Week 8	Scanners types ,resolution, OCR, configuration, installation and maintenance
Week 9	Macintosh hardware and OS configuration and component overview
Week 10	Exam
Week 11	Smartphones and other mobile devices and their operating systems and components
	Networking and synchronization as well as mobile security
Week 12	Hardware considerations pricing and setup and the advantages of virtualization
	SAN and NAS considerations, Cadd/Video workstations, home theater,& gaming PC
Week 13	Windows deployment server, imaging and drive cloning, personality transplant
Week 14	Cost of computer systems and what can be done to reduce the total cost of ownership and the factors involved in those decisions as well as safety procedures and professionalism
Week 15	Exam

**Methods of Evaluation/Assessment:**

Exams	85.00%
Lab Assignments	10.00%
Attendance	5.00%

Course Keeper: Jeff Vetter

Date Completed: April 6, 2019