

# Computer Repair Syllabus Fall 2017

*Credit Hour : 3 Days M-F*

Time: PM 12:35-2:20

Course Title: Computer Systems Technology

Course Number: ITN 107-10-1

Mr. Coates

821-6213 ext 664

Email: [jcoates@campbell.k12.va.us](mailto:jcoates@campbell.k12.va.us)

**Textbook:** Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs, Fourth Edition (Exams 220-901 & 220-902)

## **Course Objectives**

This course maps fully to CompTIA's new Strata and A+ Exam objectives. The course is designed to be a complete, step-by-step approach for learning the fundamentals of supporting and troubleshooting computer hardware and software.

## **Specific chapters include: may not be covered in order**

- Chapter 1. The Path of the PC Tech;
- Chapter 2. Operational Procedures;
- Chapter 3. The Visible PC;
- Chapter 4. Understanding Windows;
- Chapter 5. Microprocessors;
- Chapter 6. RAM;
- Chapter 7. BIOS and CMOS;
- Chapter 8. Expansion Bus;
- Chapter 9. Motherboards;
- Chapter 10. Power Supplies;
- Chapter 11. Hard Drive Technologies;
- Chapter 12. Implementing Hard Drives;
- Chapter 13. Removable Media;
- Chapter 14. Installing and Upgrading Windows;
- Chapter 15. Working with the Command Line Interface;
- Chapter 16. Securing Windows Resources;
- Chapter 17. Maintaining and Troubleshooting Windows;
- Chapter 18. Input/Output;
- Chapter 19. Video;
- Chapter 20. Multimedia;
- Chapter 21. Portable Computing;
- Chapter 22. Printers;

Chapter 23. Local Area Networking;  
 Chapter 24. Wireless Networking;  
 Chapter 25. The Internet;  
 Chapter 26. Securing Computers;  
 Chapter 27. The Complete PC Tech;  
 Appendix A: Mapping to the CompTIA A+ Objectives;  
 Appendix B: About the CD-ROM; Glossary; Index

**Course Requirements:**

*All Students Must:*

- Do regular homework assignments when not completed in class.
- Take Chapter quizzes and unit exams on dates scheduled with instructor
- Complete group projects when required
- Complete all lab assignments in the time given
- Clean up after completing assignments in lab area each day

**Attendance Policy:**

Please see the instructor regarding absences or class conflicts. Attendance at all examinations on the assigned date is mandatory. Anyone missing a test with an unexcused absence will receive a grade of zero on the test. The instructor must be notified prior to the test for an excuse to be granted in order to arrange for an alternate exam and date.

Attendance is necessary in order to successfully meet the objectives of this course. Students are reminded that all businesses operate according to deadlines and timelines. This course will follow that model, thus students are required to hand-in assignments on or before the due date and be present for exams.

**Grading**

|                                       |     |
|---------------------------------------|-----|
| Test                                  | 200 |
| Quizzes from instructor (Assessments) | 100 |
| Assignments (Worksheets, Lab work)    | 75  |
| Class Participation & Professionalism | 50  |
| Weekly Reflection                     | 50  |
| Projects                              | 150 |
|                                       |     |

### ***Test for each section***

Test will be given for each Chapter. The instructor will have a baseline that a student must pass before going on the next Chapter. If a student fails the test he or she may retake it with the instructor's approval. However, after each failed attempt the student must meet with the instructor to figure out why he or she did not pass the benchmark.

### ***Quizzes from Instructor***

Before each chapter the instructor will give students a Pre Assessment to determine how much knowledge the student knows about the topic. After learning about the chapter the instructor will give a Post Assessment to determine how much knowledge was learned and what areas from the chapter need to be worked on before taking the test.

### ***Assignments (Worksheets, Lab work)***

Daily assignments will be given to students to stimulate the learning process. Lab work should be completed and presented to instructor for a grade.

### ***Class Participation***

Students are required to participate in class discussion and keep up with the instructor when we go over materials in class.

### ***Professionalism and Attendance***

Students are required to act in a professional manner when working on projects. Attendance will be treated as a job requirement. If a student is sick from work to many times even if the excuse is documented as sickness there will be consequences. Just like at a job sooner or later a worker will run out of sick days and be fired. In this class a student will not pass this class when missing a substantial amount of class time. This class meets for two hours and a half that can be a lot of work to make up for one day missed.

### ***Weekly Reflection***

Each student will type ten sentences about what they learned this week in class related to the material in class.

### ***Class Projects***

Each six weeks students will have an individual or group project that needs to be done.

### ***Differentiated Instruction***

Mr. Coates will be using techniques of Differentiated Instruction in his class to help students achieve the goals of being able to pass the Certification Exam in May of school year.

### ***Mastery Learning***

Students will be required to pass certain skills with mastery before they can go onto the next section. This is essential if students want to pass the certification exam.

### ***Notes:***

•Each week students will be given a list of task that must be completed before the end of the week. Students will receive a weekly grade with the percentage of the assignments completed on Friday.

### ***Competencies***

Competencies will be rated with the following rating to show mastery.

|   |   |
|---|---|
| 4 | <b>- Can teach others</b>                   |
| 3 | <b>Can perform without supervision</b>      |
| 2 | <b>Can perform with limited supervision</b> |
| 1 | <b>Can perform with supervision</b>         |
| 0 | <b>Cannot perform</b>                       |

### **Grading Scale**

|   |        |
|---|--------|
| A | 100-90 |
| B | 89-80  |
| C | 79-70  |
| D | 69-65  |
| F | 64-0   |

Grading scale is the same scale provided by Campbell County Schools

ADA Clause to use for each class syllabus

It is CVCC's policy to provide reasonable accommodations to qualified students with documented disabilities. Our goal is to help students succeed in this course. If you have a documented physical, mental, or learning disability and you need a reasonable accommodation to help you achieve success, please contact Student Support Services, in the Counseling Center, Room 2119, phone (434) 832-7802 or (434) 832-7299 or email [ADA@cvcc.vccs.edu](mailto:ADA@cvcc.vccs.edu). To best provide the accommodation you need, make this request as soon as possible, since accommodations cannot be made to change a grade you have

received for course work already completed. For further information, please link to the following website.

<http://www.cvcc.vccs.edu/Student%20Services/Disabilities/default.asp>

**HONOR STATEMENT IN COLLEGE CATALOG ON PAGE 144  
(Online on CVCC's home page @ CVCC.VCCS.EDU)**

1. Upon admission to the College, the following statement shall be accepted and signed by all students:

The Honor Code is based on the principle that the student will not cheat, lie or steal. An application for admission to CVCC implies that a student, if admitted, will read the Honor Code in the Catalog/ Handbook, will uphold the honor of the College by observing the Code, and will report any violation witnessed.

2. The Honor Pledge shall read "I have neither given nor received unauthorized assistance on this assignment (paper, quiz, test, etc.). Neither have I observed cheating."

*Indicate your acceptance of this responsibility by signing your name below.*

*Signature* \_\_\_\_\_

3. Reports of suspected Honor Code violations and requests for investigation are available from the Office of the Dean of Student Services. The form shall read as follows: *Report of Suspected Student Academic Misconduct.*

You may use your own wording as long as it is clearly stated.