

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: CTEC 114

Credit Hours: 3-3-0

Course Title: IT Software Support

Course Prerequisites: None

Textbook(s): LabSim PC Pro – ISBN: 978-1-935080-42-8

Course Description: This course covers the fundamentals of supporting Information Technology software. Skills will be covered in the installation and configuration of PC operating systems as well as configuring common features for mobile OS Android, Apple OS, and Windows mobile. The class is conducted in a laboratory setting where hands-on learning is emphasized. This course, along with CTEC 112 - IT Hardware Support, will help students gain the skills required for the nationally recognized CompTIA A+ certification exam.

Learning Outcomes:

At the end of this course, the student will:

- A. install, configure, upgrade and maintain Microsoft Windows operating systems;
- B. recognize fundamental concepts related to other operating systems and technologies;
- C. apply security concepts related to information technology;
- D. use troubleshooting theory to apply basic software and mobile device troubleshooting skills; and
- E. appropriately employ information technology operational procedures.

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. compare and contrast various features and requirements of Microsoft Operating Systems; (A)
2. install Windows PC operating systems using appropriate methods; (A)
3. apply appropriate Microsoft command line tools; (A)
4. use appropriate Microsoft operating system features and tools; (A)
5. use Windows Control Panel utilities; (A)
6. install and configure Windows networking on a client/desktop; (A)
7. perform common preventive maintenance procedures using the appropriate Windows OS tools; (A)
8. identify common features and functionality of the Mac OS and Linux operating systems; (B)
9. set up and use client-side virtualization; (B)
10. identify basic cloud concepts; (B)
11. summarize the properties and purposes of services provided by networked hosts; (B)
12. identify basic features of mobile operating systems; (B)
13. install and configure basic mobile device network connectivity and email; (B)
14. summarize methods and data related to mobile device synchronization; (B)
15. identify common security threats and vulnerabilities; (C)
16. compare and contrast common prevention methods; (C)
17. compare and contrast differences of basic Windows OS security settings; (C)
18. deploy and enforce security best practices to secure a workstation; (C)
19. compare and contrast various methods for securing mobile devices; (C)

20. use appropriate data destruction and disposal methods; (C)
21. secure Small Office/Home Office (SOHO) wireless and wired networks; (C)
22. troubleshoot PC operating system problems with appropriate tools; (D)
23. troubleshoot common PC security issues with appropriate tools and best practices; (D)
24. troubleshoot common mobile OS and application issues with appropriate tools; (D)
25. troubleshoot common mobile OS and application security issues with appropriate tools; (D)
26. use appropriate safety procedures; (E)
27. given a scenario with potential environmental impacts, apply appropriate controls; (E)
28. summarize the process of addressing prohibited content/activity, and explain privacy, licensing and policy concepts; (E)
29. demonstrate proper communication techniques and professionalism; (E) and
30. explain the troubleshooting theory. (E)

Course Requirements:

- To pass the course, student must achieve a course average of 70% or above.
- Students must have access to a computer (not mobile device), Microsoft Office, and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning Commons located in the BPCC Library.
- Students are required to use BPCC's LMS and are encouraged to use the BPCC Library to research topics and employment opportunities.

Course Grading Scale:

- A = 90 - 100
- B = 80 - 89
- C = 70 - 79
- D = 60 - 69
- F = 0 - 59

Attendance Policy:

Each student is expected to attend class regularly; excessive unexcused absences constitute grounds for suspension. Refer to the student handbook for [Attendance Policy](#).

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

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