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**Syllabus**

Please provide a complete syllabus. All elements of the syllabus are required unless noted as “if applicable.”

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| **Course Title: Computer Maintenance 2: Windows Networking, Maintenance, Virtualization & Network Printing, and Security** | **Course Number** (If applicable): CMPT1405AB | |
| **COURSE DESCRIPTION:**  This is the second of a series of three courses that provides in-depth exposure to computer software, mobile devices, security, and troubleshooting. Students learn the functionality of operating system software as well as suggested best practices in maintenance, and security. Through hands on activities and labs, students learn how to install, upgrade and maintain an operating system. This course includes the following topics: Networking, Maintenance, Virtualization, Network Printing, and Security. By completing all three courses in the series, students will review the objectives covered on the CompTIA A+ certification – Exam #2.  **Note:** There is a “Final Exam” to assess student learning across the three courses (CMPT1405AA Computer Maintenance 2: File Systems, Windows Installation, Command Prompt & Tools, OS & Accounts, and Control, CMPT1405AB Computer Maintenance 2: Windows Networking, Maintenance, Virtualization & Network Printing, and Security, and CMPT1405AC Computer Maintenance 2: Mobile Devices and Troubleshooting) which occurs at the end of the series in Lesson 4 of CMPT1405AC. | | |
| **PREREQUISITES:**  Knowledge of computer components, peripherals, and how they work together.  Knowledge of Windows XP, Vista, and 7 operating systems. | | |
| **REQUIRED MATERIALS:**   * Physical or virtual computer * Windows 7 installation disk * Internet access * Wireless router or access point | | |
| **ADDITIONAL RESOURCES** (if applicable): *All-in-One CompTIA A+ Certification Exam Guide, 8th Ed. (2012 Objectives)*, Mike Meyers, McGraw-Hill, 2012, ISBN# 978-0071-795128 (Paid) <http://certification.comptia.org/getCertified/certifications/a.aspx>  <http://www.examforce.com/offer/free-comptia-aplus-examprep?sid=1548>  <http://www.practicequiz.com/CompTIA-220-802-Certification-Practice-Test> | | |
| **The series of three courses includes these LEARNING OUTCOMES/COMPETENCIES:**  Student will be able to   * Identify and install Windows operating systems. * Identify and configure mobile devices. * Identify and configure printer components. * Compare and contrast different desktop and mobile operating systems. * Implement a preventative maintenance schedule. * Identify and troubleshoot common hardware problems. * Identify and troubleshoot common software problems. * Identify and troubleshoot common security issues. | | |
| **COURSE ASSESSMENT:**  The course content, PowerPoints, study guides, and hands-on-labs will prepare students for the CompTIA A+ Exam #2. Module/Lesson tests, and exams are scheduled weekly throughout the course. Assignments, labs, and supplementary material are included with the course.  **Grading Scale**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Category** | **Weight** | | Module Tests | 30% | | Homework/Study Guides | 10% | | Labs | 20% | | Mid-term and Final Exams | 40% | | **Final Grade** | **100%** | | |  |  | | --- | --- | | **Percentage** | **Grade** | | 90%-100% | A | | 80%-89% | B | | 70%-89% | C | | 60%-69% | D | | 0%-59% | F | |   The grading scale is administered equally to all students in the course. Do not expect to receive a grade higher than what you earn based on your total points. No point adjustments will be made for such things as class participation or other subjective factors. | |

**COURSE SCHEDULE:**

**Note:** This partial example shows a course that combines lecture and lab components.

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| **Module/**  **Lesson** | **Module/Lesson Title & description** (if applicable) | **Learning Outcomes**  Students will be able to: | **Assignment** |
|  | Windows Networking | 1. Setup and configure Windows networking. | Lab: Networking EssentialsStudy Guide #6  * Test #6 |
|  | Maintenance and Security | 1. Perform preventive maintenance procedures. 2. Identify basic operation system (OS) security settings. | Lab: Disk Maintenance and Data RecoveryStudy Guide #7  * Test #7 |
|  | Mid-Term Review | 1. Review computer software. | Mid-Term Exam |
|  | Virtualization and Network Printing | 1. Identify and compare basic client-side virtualization. 2. Configure network printing. | Lab: Remote AccessStudy Guide #8  * Test #8 |
|  | Security Fundamentals | 1. Identify and compare the importance of security. 2. Compare common prevention methods. 3. Identify security threats. | Study Guide #9  * Test #9 |
|  | Security Methods | 1. Secure a workstation. 2. Define wireless and wired security methods. 3. Customize features of Windows 7. | Lab: SecurityStudy Guide #10  * Test #10 |