SOUTHWEST TECH
SOUTHWEST TECHNICAL COLLEGE

TEIT 1210 - A+ Core II (3 Credits)

Course Description

A+ Core II is a follow up to A+ Core1 and provides further instruction on installation, configuration, maintenance, and security of various common operating systems and platforms. This course aligns with the objectives of the CompTIA A+ Core 2 certification exam.

Course Objectives

- Install and Configure Windows, Mac, and Linux.
- Identify best practices for safety, environmental impacts, communication, and professionalism.
- Troubleshoot common operating system, malware, and security issues.
- Identify basic vulnerabilities and protect against threats.
- Install, configure, and maintain software in computers and mobile devices.

Course Outline

- Managing Windows
- Securing Windows
- Operating System Management
- Security Best Practices
- Mobile Devices
- Data Security

Textbook & Reading Materials

TestOut PC Pro, Test Out, ISBN: 9781935080428

Assignments and Assessments

Course Introduction and Standards
Meet Your Instruction Team
Rules of the Lab
CS Code of Conduct Policy
Submitting Assignments in Canvas
Taking a Screenshot
Orientation
Syllabus Agreement
Module 13.0 introduction
13.1.4 - Lab: Disk Management
13.1.7 - Lab: Users and Groups
13.1.12 - Lesson Review
13.2.4 - Lab: Manage Files and Folders
13.2.7 - Use System Management Commands
13.2.8 - Lesson Review
13.3.7 - Lab: Configure a VPN Connection
13.3.9 - Lab: Local Firewall Settings
13.3.10 - Lab: Configure TCP/ IP Settings on Windows 10
13.3.11 - Lab: Configure TCP/IP Settings on Windows 11
13.3.12 - Lesson Review
13.5 - Module Quiz
14.1.2 - Lab: Assisted Troubleshooting
14.1.4 - Lab: Troubleshoot Physical Connectivity
14.1.8 - Lab: Connectivity
14.1.9 - Lab: Services/Name Resolution
14.1.10 - Lesson Review
14.2.4 - Lab: Configure Remote Services
14.2.10 - Lesson Review
14.3.10 - Lab: Manage Applications
14.3.14 - Lesson Review
Student Acknowledgement Statement Module 1
Checkpoint Meeting Module 1
14.4 - Troubleshoot Windows OS Problems
14.4.3 - Lab: Boot into the Windows Recovery Environment
14.4.5 - Lab: Create a Restore Point
14.4.9 - Lab: Configure the Boot Order
14.4.14 - Lesson Review
14.6 - Module Quiz
14.7 - Checkpoint Review
15.1.4 - Asymmetric Encryption
15.1.8 - Lab: Create User Accounts
15.1.10 - Authentication
15.1.11 - Lesson Review
15.2.3 - Lab: Create OUs
15.2.5 - Lab: Use System Commands
15.2.6 - Lab: Group Policy Management
15.2.7 - Lesson Review
15.3.6 - Lab: Configure NTFS Permissions
15.3.11- Lab: Support AD Domain Networking
15.3.12 - Lesson Review
15.5 - Module Quiz
16.1.6 - Lab: Windows 11 Features/Desktop
16.1.7 - Lesson Review

16.2.6 - Lesson Review
16.4 - Module Quiz
Student Acknowledgement Statement Module 2
Checkpoint Meeting Module 2
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17.1.7 - Lab: File Management
17.1.10 - Lab: Manage Linux File Ownership
17.1.11- Lesson Review
17.2.4 - Lab: Informational and Network Tools
17.2.6 - Lab: Configure Linux
17.2.7 - Lesson Review
17.3.11- Lesson Review
17.5 - Module Quiz
17.6 - Checkpoint Review
18.1.3 - Lab: Respond to Social Engineering Exploits
18.1.9 - Lab: Explore SQL Injection Flaws
18.1.10 - Lesson Review
18.2.4 - Authentication Methods
18.2.6 - Lesson Review
Student Acknowledgement Statement Module 3
Checkpoint Meeting Module 3
18.3 - SOHO Router Security
18.3.2 - Lab: SOHO Router Configuration
18.3.9 - Secure a Small Wireless Network
18.3.10 - Lesson Review
18.4.2 - Lab: Implement Physical Security
18.4.5 - Lesson Review
18.6 - Module Quiz
19.1.2 - Lab: Enforce Password Settiings
19.1.9 - Lab: User Policy Management
19.1.10 - Lesson Review
19.2.7 - Lab: Configure Microsoft Defender Antivirus
19.2.9 - Windows Defender
19.2.11- Lab: Encrypt Files with EFS
19.2.13 - Lab: Configure BitLockerwith a TPM
19.2.14 - Lesson Review
19.3.2 - Lab: Practice Installing & Removing Browser Software
19.3.4 - Lab: Safe Browsing Best Practices
19.3.9 - Clear Browser History
19.3.10 - Lesson Review
Student Acknowledgement Statement Module 4
Checkpoint Meeting Module 4
19.4 - Troubleshoot Workstation Security
19.4.9 - Check for Anti-Malware on a Machine
19.4.13 - Lesson Review
19.6 - Module Quiz
20.1.8 - Lab: Configure Remote Wipe
20.1.9 - Lesson Review
20.2.2 - Mobile Device Troubleshooting
20.2.6 - Lab: Connect to WiFi
20.2.7 - Lesson Review
20.3.4 - Lesson Review

20.5 - Module Quiz
20.6 - Checkpoint Review
21.1.3 - Lab: Back Up t he Computer
21.1.6 - Lab: Restore Data from File History
21.1.7 - Lesson Review
Student Acknowledgement Statement Module 5
Checkpoint Meeting Module 5
21.2 - Data Handling Best Practices
21.2.7 - Lesson Review
21.3.5 - Lesson Review
21.5 - Module Quiz
22.1.7 - Lesson Review
22.2.8 - Lab: Install a UPS
22.2.9 - Lesson Review
22.3.2 - Bash Command Syntax
22.3.4 - Conditionals
22.3.7 - Lab: JavaScript
22.3.10 - Lesson Review
22.5 - Module Quiz
22.6 - Checkpoint Review
End of Course Survey
End of Course Student Acknowledgement Statement
Course Completion Checkpoint Meeting

Subject to change. Please consult your Canvas course for the most current instructions and updates.

Classroom Hours

Mo, Tu, W, Th, Fr
8:00 AM - 11:00 AM
12:00 PM - 3:00 PM

For a full list of course hours visit: Course Schedule

Instructor Contact Information

Greg Davis — gdavis@stech.edu
Austin Prince — aprince@stech.edu

Office Hours: By appointment

Email is the preferred method of communication; you will receive a response within 24 hours during regular business hours.

Canvas Information

Canvas is the where course content, grades, and communication will reside for this course.

- stech.instructure.com
- For Canvas passwords or any other computer-related technical support contact Student Services.
- For regular Hours and Weekdays call (435) 586 - 2899.
- For after Hours & Weekends call (435) 865 - 3929 (Leave a message if no response).

Course Policies

Course Grading: All assignments in this course require 100% score with unlimited submissions. All quizzes require a minimum score of 80%.

High School Power School Grades: Quarter student grades will be determined by student progress percentage. Faculty will use the higher percentage of either 1) quarter progress, or 2) cumulative progress for the current training plan year.

Grade Scale: The following grading scale will be used to determine a letter grade.

A : 94 - 100%	B : 83 - 86%	C : 73 - 76%	D : 63 - 66%
A- : 90 - 93%	B- : 80 - 82%	C- : 70 - 72%	D- : 60 - 62%
B+ : 87 - 89%	C+ : 77 - 79%	D+ : 67 - 69%	F : 0 - 59%

Course Policies: You are required to keep your progress and attendance at 67% minimum. You must complete this program within 150% estimated program length. You are permitted one 15 minute break every 90 minutes. If you take more than one break in a 90 minute period or your break lasts longer than 15 minutes, your attendance will be penalized. 10 consecutive absences will lead to being withdrawn from the program. Please notify your instructors about absences as soon as possible. If absence is due to illness, please email your instructors prior to end of day. Cell Phone/Electronics – Cell phones cannot be used during class time. You may bring your personal computers to class. You must be on topic in the lab while clocked-in. Industry Environment – computer science typically is very sedentary. This means you may sit at a desk for long hours. Be sure to move and get what exercise you can.

Additional Information

InformaCast Statement: Southwest Tech uses InformaCast to ensure the safety and well-being of our students. In times of emergency, such as weather closures and delays, this app allows us to promptly deliver notifications directly to your mobile devices. To stay informed and receive real-time updates, we encourage all students to sign up for notifications. Your safety is our priority, and staying connected ensures a swift response to any unforeseen circumstances. More information and directions for signing up are available at: https://stech.edu/emergency-notifications/

Internet Acceptable Use Policy: The student is expected to review and follow the Southwest Technical College Internet Safety Policy at: https://stech.edu/students/policies/

Student Code of Conduct Policy: The student is expected to review and follow the Southwest Technical College Student Code of Conduct Policy at: https://stech.edu/students/policies/

Accommodations: Students with medical, psychological, learning, or other disabilities desiring accommodations or services under ADA, must contact the Student Services Office. Student Services determines eligibility for and authorizes the provision of these accommodations and services. Students must voluntarily disclose that they have a disability, request an accommodation, and provide documentation of their disability. Students with disabilities may apply for accommodations, based on an eligible disability, through the Student Services office located at 757 W. 800 S., Cedar City, UT 84720, and by phone at (435) 586-2899. No diagnostic services are currently available through Southwest Technical College.

Safety and Building Maintenance: The College has developed and follows a variety of plans to ensure the safe and effective operation of its facilities and programs. The following plans are available online:
1) Facilities Operations and Maintenance Plan; 2) Technical Infrastructure Plan; and 3) Health and Safety Plan.

Withdrawals and Refunds: Please refer to the Southwest Technical College Refund Policy at:
https://stech.edu/students/policies/

Any high school or adult student, who declares a technical training objective is eligible for admission at Southwest Technical College (Southwest Tech). Program-specific admissions requirements may exist and will be listed on the Southwest Tech website. A high school diploma or equivalent is not required for admission but is mandatory for students seeking Title IV Federal Financial Aid.

Non-Discriminatory Policy: Southwest Technical College affirms its commitment to promote the goals of fairness and equity in all aspects of the educational enterprise, and bases its policies on the idea of global human dignity.

Southwest Tech is committed to a policy of nondiscrimination. No otherwise qualified person may be excluded from participation in or be subjected to discrimination in any course, program or activity because of race, age, color, religion, sex, pregnancy, national origin or disability. Southwest Technical College does not discriminate on the basis of sex in the education programs or activities that it operates, as required by Title IX and 34 CFR part 106. The requirement not to discriminate in education programs or activities extends to admission and employment. Inquiries about Title IX and its regulations to STECH may be referred to the Title IX Coordinator, to the Department of Education, and/or to the Office for Civil rights.

If you believe you have experienced discrimination or harassment on our campus, please contact the Title IX Coordinator, Cory Estes: cestes@stech.edu, (435) 865-3938.

For special accommodations, please contact the ADA Coordinator, Cyndie Tracy: ctracy@stech.edu, (435) 865-3944.
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