TENTATIVE—SUBJECT TO CHANGE

CIST2611 – Network Defense and Countermeasures (crn 20022)
COURSE SYLLABUS
Online *Asynchronous
Fall Semester 2022 (202312)

Course Taught Fully Online Asynchronously (does not require students to be online at specific dates/times). Proctored Event is required.

COURSE INFORMATION

Credit Hours/Minutes: **4/4500**
Campus/Class Location: **Georgia Virtual Technical Connection (GVTC)/Blackboard**
Class Meets: **Via Internet for 15 weeks**
Course Reference Number (CRN): **20022**
Preferred Method of Contact: **Email – John Taylor (jtaylor@southeasterntech.edu) using STC Office 365**

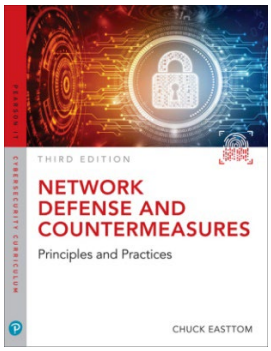
INSTRUCTOR CONTACT INFORMATION

Instructor Name: **Mr. John Taylor**
Email Address: **John Taylor (jtaylor@southeasterntech.edu)**
Campus/Office Location: **Vidalia Campus, Room 810 Gillis Building**
Office Hours: **8:30 – 11:30am Monday / Wednesday and 1:00 – 4:00pm Tuesday / Thursday**
Phone: **912-538-3116**
Fax Number: **912-538-3106**
Tutoring Hours: **Made by appointment with instructor**

SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's Catalog and Handbook (https://catalog.southeasterntech.edu/college-catalog/downloads/current.pdf).

REQUIRED TEXT

Book Image	Book Information
 Textbook (Optional) Access Card is required!	**Network Defense and Countermeasures Pearson uCertify Course and Labs Student Access Card** **William (Chuck) Easttom II** **Textbook (Optional): Network Defense and Countermeasures: Principles and Practices, 3rd Edition** **You will need to purchase the access code from the Bookstore or directly from uCertify, see link below.** https://www.ucertify.com/cart/?order=01xHd&ref=&add_order=1

****Students must purchase the Access Code for the Network Defense and Countermeasures uCertify course.**
The uCertify code can be purchased from the Bookstore or directly from uCertify. Be sure to purchase the correct code.

****<u>Students are required to have all books, codes, and supplies on the first day of class.</u>**

REQUIRED SUPPLIES & SOFTWARE
Internet access

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor Georgia Virtual Technical Connection (GVTC) provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

Students should not share login credentials with others and should change passwords periodically to maintain security.

COURSE DESCRIPTION
Students will learn how to plan, design, install and configure firewalls that will allow key services while maintaining security. This will include protecting the Internal IP services, configuring a firewall for remote access, managing a firewall, and detecting and preventing network intrusions.

MAJOR COURSE COMPETENCIES
1. Define problem solving and programming concepts
2. Develop structured solutions using the three logic structures
3. Develop structured solutions utilizing file processing concepts
4. Develop structured solutions using arrays.

PREREQUISITE(S)
CIST 2451, CIST 1601

COURSE OUTLINE
1. **Plan and Design of a Firewall**
    1. Define and describe a firewall
    2. Demonstrate an understanding of the different types of firewall protection.

2. **Configuration and Installation of a Firewall**
    1. Identify and describe router-based firewalls.
    2. Identify and describe workstation-based firewalls.
    3. Identify and describe split-screened subnet architecture.
    4. Demonstrate an understanding of and configure a packet-filtering architecture.

3. **Outgoing Services Related to Firewalls**
    1. Demonstrate an understanding of and configure user authentication.
    2. Demonstrate an understanding of and configure data encryption.
    3. Demonstrate an understanding of and configure application-layer firewalls.
    4. Explain using perimeter network security (DMZ) for outgoing services

4. **External Services**
    1. Demonstrate an understanding of and configure World Wide Web or HTTP services.
    2. Demonstrate an understanding of and configure E-Mail or SMTP.
    3. Demonstrate an understanding of and configure file transfer protocol.

5. **Internal IP Services**
    1. Explain using perimeter network security (DMZ) to protect IP services.
    2. Demonstrate an understanding of and configure data filtering, traffic control and user authentication.
    3. Demonstrate an understanding of and configure access control and network monitoring.

6. **Firewall / Remote Access**
    1. Define and describe remote access service.
    2. Describe a VPN (Virtual Private Network).
    3. Demonstrate an understanding of TACACS+ and RADIUS (Remote Authentication Dial-in User Service).

7. **Intrusion Detection and Prevention**
    1. Explain intrusion detection and prevention.
    2. Define the difference between host and network detection.
    3. Demonstrate an understanding of the difference between passive and active detection.
    4. Demonstrate tools used in intrusion detection and prevention

GENERAL EDUCATION CORE COMPETENCIES

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS (ONLINE)

Students are expected to complete all work shown on the attached Lesson Plan by the dates specified. Assignments will be saved **via the uCertify course and Blackboard learning system. Students will have at least one week to complete the assigned work. All assignments/tests are due at 11:59 pm on Tuesday of each week and may not be accepted late. After the due date a grade of zero will be given. Instructor reserves the right to deduct points for each day late if an exception is given to the no late work rule.**

Program students must earn a minimum grade of C in this course. Unannounced quizzes/assignments may be given. Late assignments will not be accepted. Students who miss any assignment, quiz, test, project, or discussion board will receive a grade of 0.

Students are expected to prove weekly academic engagement by meeting assignment deadlines each week and spending a minimum of **4 hours per week** during the semester doing the required homework, quizzes, and tests. Students are expected to communicate frequently through college email and discussion boards. College email and other STC resources can be accessed from the **mySTC** tab on STC's Website. Email can also be accessed in the menu of your Blackboard course.

DISCUSSION BOARD TOPICS

Discussions must be appropriate to the class. Spelling and Grammar are considered part of the grade. Posted content should fully answer the question. Short 1 to 2 sentence posts will not be sufficient. See Discussion Board rubric below. **Complete your initial post by Wednesday and all replies by the Tuesday due date.**

EMAILS

Preferred method of communication should be through student MAIL. Make sure that you always type your name and class in the subject line of every email you send me so I know which class you are in. For example: CIST2611 Taylor

CHECKING GRADES

A grade book is made available in the BLACKBOARD course on the main page by clicking the MY GRADES link when students log in. This grade book is for students to review and is continuously updated throughout the semester. Students can view their grades at any time to see the individual grades for each assignment. The overall percentage averages should display in the grade book to help track course progress.

NO HARM NO FOUL POLICY

It is the student's responsibility to drop courses during the first three days by completing a withdrawal form with a Counselor in Student Affairs. If a student comes to class during the **first three days** or any day during this time, the student will be dropped with no penalty **only if** they have completed the Withdrawal Form with Student Affairs by the close of business on the third business day of the quarter. **The student must formally withdraw from classes in order to receive the no harm-no foul benefit.**

COVID-19 MASK REQUIREMENT

Regardless of vaccination status, students are highly encouraged to wear masks or face coverings while in a classroom or lab at Southeastern Technical College. Masking may be implemented in some program areas (i.e. Health Sciences and Cosmetology) where students, faculty, and clients are in close proximity and social distancing cannot be maintained. This measure is being implemented to reduce COVID-19 related health risks for everyone engaged in the educational process. Masks or face coverings must be worn over the nose and mouth, in accordance with the Centers for Disease Control and Prevention (CDC).

COVID-19 SIGNS AND SYMPTOMS

We encourage individuals to monitor for the signs and symptoms of COVID-19 prior to coming on campus.

If you have experienced the symptoms listed below or have a body temperature 100.4°F or higher, we encourage you to self-quarantine at home and contact a primary care physician's office, local urgent care facility, or health department for further direction. Please notify your instructor(s) by email and do not come on campus for any reason.

COVID-19 Key Symptoms
Fever or felt feverish
Chills
Shortness of breath or difficulty breathing (not attributed to any other health condition)
Fatigue
Muscle or body aches
Headache
New loss of taste or smell

COVID-19 Key Symptoms
Sore throat (not attributed to any other health condition)
Congestion or runny nose (not attributed to any other health condition)
Nausea or vomiting
Diarrhea
In the past 14 days, if you:
Have had close contact with or are caring for an individual diagnosed with COVD-19 at home (not in healthcare setting), please do not come on campus and contact your instructor (s).

COVID-19 SELF-REPORTING REQUIREMENT

Students, regardless of vaccination status, who test positive for COVID-19 or who have been exposed to a COVID-19 positive person, are required to self-report using https://www.southeasterntech.edu/covid-19/. Report all positive cases of COVID-19 to your instructor and Stephannie Waters, Exposure Control Coordinator, swaters@southeasterntech.edu, 912-538-3195.

ONLINE ATTENDANCE

It is the student's responsibility to be academically engaged each week doing course related activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" (Failing 0-59) in a course.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Students will have at least one week to complete tests and assignments. All tests and assignments are due at **midnight** on **Tuesday** of each week. Exceptions to the due dates of assignments due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Swainsboro Campus: Daphne Scott (dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.
Vidalia Campus: Helen Thomas (hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please make arrangements with the appropriate campus coordinator.

Swainsboro Campus: Daphne Scott (dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.
Vidalia Campus: Helen Thomas (hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery MAY NOT be accommodated. The coordinator will contact your instructor to discuss accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which the student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" (Failing 0-59) being assigned.

Informing your instructor that you will not return to his/her course, does not satisfy the approved withdrawal procedure outlined above.

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must also speak with a representative of the Financial Aid Office to determine any financial penalties that may be accessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

PROCTORED EVENT REQUIREMENT

In order to validate student identity for all online courses, students enrolled in online courses are **required** to complete one proctored event per online course. **Students are required to bring a photo ID (STC Student ID, Driver's License, or Passport) to the proctored event.** The proctored event will be administered on separate days—once on the Vidalia campus and once on the Swainsboro campus. Students must attend one of the proctored sessions as scheduled on the Lesson Plan/Course Calendar. The event will be monitored by the instructor or by an approved proctor. The proctored event may be a major exam, assignment, or presentation, etc. that will count a minimum of 20% of the course grade. Students must attend one of the scheduled proctored sessions and will need to make arrangements with work, childcare, etc. The specific dates of the proctored event are scheduled on the Lesson Plan/Calendar for the online course.

Students living farther than 75 miles from either campus who cannot come to Southeastern Tech for the event must secure an approved proctoring site. The site and the proctor must meet Southeastern Technical College's requirements (instructor will provide more information and necessary forms if this is the case). Note: Students taking proctored events off campus will utilize the Proctor Scheduling and Approval Form found in Blackboard within the Getting Started/Start Here and Proctoring Event area. The completed form should be submitted to the course instructor a minimum of two weeks prior to the proctored event. If approved, the instructor will notify the proctor.

Students arranging off-campus proctoring must take the event on one of the originally scheduled days. Students who do not complete the proctored event as scheduled must submit a valid documented excuse within three business days after the scheduled event. If the excuse is approved by the instructor of the

course, students must make arrangements with the instructor to makeup/reschedule the missed event. The penalty and makeup instructions will be at the instructor's discretion. Proctored events will be given after the 65% point of the semester. Students who do not complete the proctored event on the scheduled date and do not present a valid documented excuse within three business days of the scheduled event will be given a zero for the proctored event.

PROCTORING FEES

Students are not charged a proctoring fee when taking a proctored event at Southeastern Technical College or any other TCSG college. Students who choose to use an off-campus proctor may be assessed a proctoring fee by the proctoring site. In this instance, the student is responsible for payment.

The required proctored event for this class is scheduled on the following dates and times: Vidalia Campus, Monday, December 5, 2022, 2:00pm, Rm 812 Gillis Building and Swainsboro Campus, Tuesday, December 6, 2022, 2:00 pm, Building 2 Room 2106.

MAKEUP GUIDELINES

Students are required to take all tests scheduled during the semester. Failure to take Tests/Exam(s), and assignments will result in a grade of zero. There will be no makeup of assignments or EXAMS. If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the assignment/exam will be reset. Instructor reserves the right to deduct points from the scores for exceeding the scheduled time limit on the assignment/exam. Note: If student notifies instructor about problems because of technical issues after the due date or on the last day of the semester, the student will NOT be allowed to make-up the assignment. No exceptions! **Assignments must be turned in on the assigned date and will not be accepted late, a grade of zero will be given.** All assignments are due according to the lesson plan. Instructor reserves the right to give late points for each day late if an exception is given to the no late work rule. The due dates are posted on the lesson plan. Weeks start on Tuesday and end on Monday with **assignments due on Tuesday at 11:55 PM**. See Lesson Plan. Makeups are not allowed.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. **First Offense**
   Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.
2. **Second Offense**
   Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.
3. **Third Offense**
   Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or

designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

As set forth in the student catalog, Southeastern Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer	**Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer**
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas (hthomas@southeasterntech.edu)	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas (ljonas@southeasterntech.edu)

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College's website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the Southeastern Technical College (STC) Website (www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

GRADING POLICY

Assessment/Assignment	**Percentage**
Discussion Forums	15%
Quizzes	30%
Labs	30%
Final Exam	25%

GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
*D	60-69
*F	0-59

*Grade of D or below results in student repeating the class

DISCUSSION GRADING RUBRIC

Category	***Description***	***Points Possible***
Content of Posting	The topic chosen must explain a component of an information system but should not be covered by a large number of classmates; the post must address the preceding questions and requirements (minimum 200 words)	60
Format of Posting	Grammar, spelling, punctuation	10
Content of Comment	Polite, concise, constructive (minimum 50 words)	20
Format of Comment	Grammar, spelling, punctuation	10
	Total Points	100

DISCLAIMER STATEMENT

Instructor reserves the right to change the syllabus and/or lesson plan as necessary.
The official copy of the syllabus is located inside the student's online course shell. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.

CIST2611 Network Defense and Countermeasures
LESSON PLAN
Fall Semester 202312 Lesson Plan
August 15, 2022 – December 6, 2022

WEEK 1

Date	Module	*Content*	Assignments & Test Due Dates	Competency Area
August 15 – 21	**1**	*Class Introduction – Syllabi, Outline, Work Ethics, Rules, and Regulations Coverage* **Introduction to Network Security** • Dangers to networks • Basic networking • Security terminology • Approaches to network security • Legal issues • Security resources	**Logon to the course on BLACKBOARD.** Complete **Pledge**, **Student Introduction, COVID 19 Presentation Acknowledgement, and Syllabus Quiz** on Blackboard. **These 4 tasks must be completed no later than August 17, 2022 to remain in this class.** Login to Blackboard and click on Lessons link Read and review **Chapter 1 – Introduction to Network Security** (Book) Complete **Quiz 1** (Blackboard).	a,c
Lab			Complete **Labs**: 1.2.1, 1.2.2, 1.2.3, 1.3.1, 1.3.2	

***Week 1 assignments must be completed and turned in before midnight August 23.**

WEEK 2

Date	Module	Content	Assignments & Test Due Dates	Competency Area
August 22 - 28	**2**	**Types of Attacks** • Common network attacks • Types of defenses • Preventing DoS attacks • Preventing Trojan attacks • Preventing buffer overflow attacks	Read and review **Chapter 2 – Types of Attacks** (Book) Complete **Quiz 2** (Blackboard). Complete **Discussion Topic 1** (Blackboard).	a,c
Lab			Complete **Labs**: 2.2.1, 2.2.2, 2.3.4, 2.4.1, 2.5.1, 2.6.1, 2.6.2	

***Week 2 assignments must be completed and turned in before midnight August 30.**

WEEK 3

Date	Module	Content	Assignments & Test Due Dates	Competency Area
August 29 – September 4	**3**	**Fundamentals of Firewalls** • Evaluating firewall solutions • Packet filtering vs. stateful packet filtering • Application gateway vs. circuit gateway • Host-based firewalls vs. router-based firewalls	Read and review **Chapter 3 – Fundamentals of Firewalls** (Book) Complete **Quiz 3** (Blackboard).	1,2,5 a,c
Lab			Complete **Labs**: 3.3.1, 3.4.1, 3.7.1	

***Week 3 assignments must be completed and turned in before midnight September 6.**

WEEK 4

Date	Module	Content	Assignments & Test Due Dates	Competency Area
September 5		**Holiday – No class**		
September 6 – 11	**4**	**Firewall Practical Applications** • Requirements of different firewall types • Needs and constraints that determine firewall solution • Popular firewall solutions • Choosing a firewall solution	Read and review **Chapter 4 – Firewall Practical Applications** (Book) Complete **Quiz 4** (Blackboard). Complete **Discussion Topic 2** (Blackboard).	1,2,3,5 a,c
Lab			Complete **Labs**: 4.4.3, 4.5.1, 4.7.1	

***Week 4 assignments must be completed and turned in before midnight September 13.**

WEEK 5

Date	Module	Content	Assignments & Test Due Dates	Competency Area
September 12 – 18	**5**	**Intrusion-Detection Systems** • How intrusion-detection systems work • Preventing intrusion • Popular intrusion-detection systems • Honeypots and their implementations	Read and review **Chapter 5 – Intrusion Detection Systems** (Book) Complete **Quiz 5** (Blackboard).	5,7 a,c
Lab			Complete **Labs**: 5.2.1, 5.4.1, 5.5.1	

***Week 5 assignments must be completed and turned in before midnight September 20.**

WEEK 6

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
September 19 - 25	**6**	**Encryption Fundamentals** • Encryption concepts • History of encryption • Modern encryption methods • Simple decryption techniques	Read and review **Chapter 6 – Encryption Fundamentals** (Book) Complete **Quiz 6** (Blackboard). Complete **Discussion Topic 3** (Blackboard).	3 a,c
Lab			Complete **Labs**: 6.3.1, 6.3.2, 6.5.1, 6.5.2, 6.7.1, 6.7.2, 6.8.1	

***Week 6 assignments must be completed and turned in before midnight September 27.**

WEEK 7

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
September 26 – October 2	**7**	**Virtual Private Networks** • Using a VPN • PPTP • L2TP • IPSec • VPN solutions	Read and review **Chapter 7 – Virtual Private Networks** (Book) Complete **Quiz 7** (Blackboard).	6 a,c
Lab			Complete **Labs**: 7.2.2, 7.3.1, 7.8.1	

***Week 7 assignments must be completed and turned in before midnight October 4.**

WEEK 8

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 3 – 9	**8**	**Operating System Hardening** • Securing a Windows system • Securing a Linux system • System patches • Application patches • Securing a web browser	Read and review **Chapter 8 – Operating System Hardening** (Book) Complete **Quiz 8** (Blackboard). Complete **Discussion Topic 4** (Blackboard).	a,c
Lab			Complete **Labs**: 8.2.1, 8.2.2, 8.2.3, 8.5.1, 8.7.1, 8.7.2, 8.7.3	

***Week 8 assignments must be completed and turned in before midnight October 11.**

WEEK 9

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 10 – 16	**9**	**Defending Against Virus Attacks** • How viruses attack • How viruses spread • Types of virus attacks • Virus scanners • Strategies to defend against virus attacks	Read and review **Chapter 9 – Defending Against Virus Attacks** (Book) Complete **Quiz 9** (Blackboard).	a,c
Lab			Complete **Labs**: 9.2.1, 9.4.2	

***Week 9 assignments must be completed and turned in before midnight October 18.**

WEEK 10

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 17 – 23 Hybrid	**10**	**Defending Against Trojan Horses, Spyware, and Adware** • Trojan horses • Preventing Trojan horse attacks • Spyware • Anti-spyware software • Anti-spyware policies	Read and review **Chapter 10 – Defending Against Trojan Horses, Spyware, and Adware** (Book) Complete **Quiz 10** (Blackboard). Complete **Discussion Topic 5** (Blackboard).	a,c
Lab			Complete **Labs**: 10.2.1, 10.2.2, 10.3.1	

***Week 10 assignments must be completed and turned in before midnight October 25.**

WEEK 11

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 24 – 30	**12**	**Accessing System Security** • System security • Vulnerability scans • Network security • Six Ps of security • Patches • Documentation	Read and review **Chapter 12 – Accessing System Security** (Book) Complete **Quiz 12** (Blackboard).	a,c
Lab			Complete **Labs**: 12.4.1, 12.5.1, 12.5.2, 12.5.3, 12.8.1	

***Week 11 assignments must be completed and turned in before midnight November 1.**

WEEK 12

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 31 - November 6	**14**	**Physical Security and Disaster Recovery** • Physical security • Disaster recovery • Business continuity	Read and review **Chapter 14 – Physical Security and Disaster Recovery** (Book) Complete **Quiz 14** (Blackboard).	a,c
Lab			No lab this week!	

***Week 12 assignments must be completed and turned in before midnight November 8.**

WEEK 13

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 7 – 13	**15**	**Techniques Used by Attackers** • Hacker techniques • Defending against common attacks • Hacking tools	Read and review **Chapter 15 – Techniques Used by Attackers** (Book) Complete **Quiz 15** (Blackboard).	1,3,4 a,b,c
Lab			Complete **Labs**: 15.2.1, 15.2.2, 15.2.3, 15.2.4, 15.3.1, 15.3.2	

***Week 13 assignments must be completed and turned in before midnight November 15.**

WEEK 14

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 14 – 20	**16**	**Introduction to Forensics** • Basic forensics principles • Making a forensic drive copy • Use forensic tools	Read and review **Chapter 16 – Introduction to Forensics** (Book) Complete **Quiz 16** (Blackboard	1,3,4 a,b,c
Lab			Complete **Labs**: 16.4.1, 16.6.1, 16.6.2	

***Week 14 assignments must be completed and turned in before midnight November 22.**

WEEK 15

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 21 - 27	**17**	**Cyber Terrorism** • Computer-based espionage • Computer-based terrorism • Defense strategies • Information warfare	Read and review **Chapter 17 – Cyber Terrorism** (Book) Complete **Quiz 17** (Blackboard	1,3,4 a,b,c
Lab			No Lab this week	

***Week 15 assignments must be completed and turned in before midnight December 6.**

WEEK 16

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 28 - December 4		**Review for Final Exam**	Review for Final Exam	1,3,4 a,b,c
Lab			Complete **Labs**: 17.3.1, 17.3.2	

***Week 16 assignments must be completed and turned in before midnight December 6.**

WEEK 17

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
December 5 - 6		**Review for Final Exam**	Review for Final Exam Take **Final Exam (covers all chapters except 11 and 13)** on Blackboard	1,3,4 a,b,c

***Week 17 assignments must be completed and turned in before midnight December 6.**

COMPETENCY AREAS:

1. Plan and Design of a Firewall
2. Configuration and Installation of a Firewall
3. Outgoing Services Related to Firewalls
4. External Services
5. Internal IP Services
6. Firewall / Remote Access
7. Intrusion Detection and Prevention

GENERAL CORE EDUCATIONAL COMPETENCIES:

a) The ability to utilize standard written English.
b) The ability to solve practical mathematical problems.
c) The ability to read, analyze, and interpret information.