



TENTATIVE—SUBJECT TO CHANGE
CIST2611 Network Defense and Countermeasures
HYBRID COURSE SYLLABUS
Fall Semester 2021 (202212)

COURSE INFORMATION

Credit Hours/Minutes: **4/4500**

Campus/Class Location: **Vidalia Campus, Gillis Building, Room 815**

Class Meets: **40% Hybrid / 60% F2F Thursdays 2:00 – 5:20 PM 15 weeks**

Course Reference Number (CRN): **20114**

Preferred Method of Contact: **Email – John Taylor (jtaylor@southeasterntech.edu)**

INSTRUCTOR CONTACT INFORMATION

Instructor Name: **Mr. John Taylor**

Email Address: **John Taylor (jtaylor@southeasterntech.edu)**

Campus/Office Location: **Vidalia Campus, Room 810 Medical Technology Building**

Office Hours: **8:00 – 12:00 Tuesdays and Thursday**

Phone: **912-538-3116**

Fax Number: **912-538-3106**

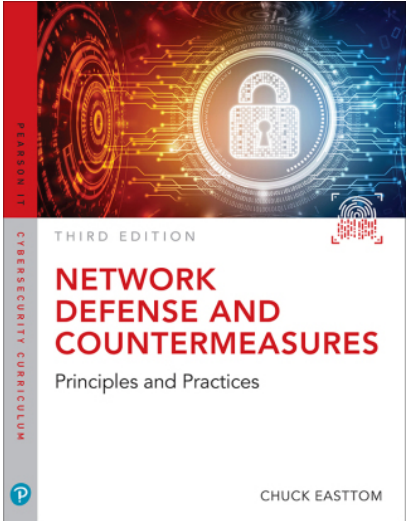
Tutoring Hours: **Made by appointment with instructor**

This course is taught in a hybrid format. Hybrid classes require students to complete a portion of the required contact hours traditionally by attending classes on campus while completing the remaining portion online at the student's convenience with respect to the instructor's requirements.

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
 <p data-bbox="191 751 496 821">Textbook (Optional) Access Card is required</p>	<p data-bbox="610 233 1365 310">Network Defense and Countermeasures Pearson uCertify Course and Labs Student Access Card</p> <p data-bbox="610 348 959 380">William (Chuck) Easttom II</p> <p data-bbox="610 415 1040 485">ISBN-13: 9780789759986 ©2019 • Pearson IT Certification</p> <p data-bbox="610 531 1430 600">Textbook (Optional): Network Defense and Countermeasures: Principles and Practices, 3rd Edition</p> <p data-bbox="610 636 1040 705">ISBN-13: 9780789759986 ©2018 • Pearson IT Certification</p> <p data-bbox="610 751 1377 863">You can purchase the Access code from the STC bookstore <u>Southeastern Technical College bookstore</u> (<u>stcbookstore@southeasterntech.edu</u>) or 912-538-3129</p>

****Students will need to purchase the Access Code for the Network Defense and Countermeasures uCertify course.** You can purchase the access code from the [Southeastern Technical College bookstore](http://stcbookstore@southeasterntech.edu) (stcbookstore@southeasterntech.edu) or 912-538-3129. The uCertify code can also be purchased from the Pearson website as well. Be sure to use the Access Card ISBN when ordering.

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

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)

None

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 (HYBRID)

Students are expected to complete all work required by the instructor. Students will have at least one week to complete tests and assignments. All tests and assignments are due at midnight on Wednesday of the following week.

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 enough time during the semester doing the required homework, quizzes, and tests. Students are expected to communicate frequently through college email and discussion boards. College email is accessed at <https://portal.office.com>, under Quick links on our webpage, or in the menu of your Blackboard course.

COVID-19 MASK REQUIREMENT

Regardless of vaccination status, masks or face coverings must be worn at all times while in a classroom or lab of Southeastern Technical College. 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). A student's refusal to wear a mask or face covering will be considered a classroom disruption and the student may be asked to leave campus and/or receive further discipline.

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)
Cough: new or worsening, not attributed to another health condition
Fatigue
Muscle or body aches
Headache

COVID-19 Key Symptoms
New loss of taste or smell
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 COVID-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](mailto:swaters@southeasterntech.edu), Exposure Control Coordinator, swaters@southeasterntech.edu, 912-538-3195.

HYBRID ATTENDANCE

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Instructors have the right to give unannounced quizzes/assignments. Students who miss an unannounced quiz or assignment will receive a grade of 0. Students who stop attending class, but do not formally withdraw, may receive a grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

Instructors are responsible for determining whether missed work may be made up and the content and dates for makeup work is at the discretion of the instructor.

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. 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" in a course.

Students will have at least one week to complete tests and assignments. All tests and assignments are **due at midnight on Wednesday** 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 \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto: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 \(dscott@southeasterntech.edu\)](mailto:dscott@southeasterntech.edu) 478-289-2274, Building 1, Room 1210.
Vidalia Campus: [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto: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 assessed due to the withdrawal. A grade of "W" will count in attempted hour calculations for the purpose of Financial Aid.

MAKEUP GUIDELINES

Students are required to complete all assignments scheduled during the semester. Failure to take Tests/Quizzes, and other assignments will result in a grade of zero. There will be no makeup of assignments. 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. The due dates are posted on the lesson plan. Weeks start on Monday and end on Sunday with assignments due on Wednesday at 11:55 PM the following week. See Lesson Plan. Makeups are not allowed for unannounced quizzes/assignments. **Students who miss any assignment, quiz, test, project, or discussion board will receive a grade of 0 unless approved by the instructor which may then receive deductions.**

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

The Technical College System of Georgia (TCSG) and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member, or citizenship status (except in those special circumstances permitted or mandated by law). This nondiscrimination policy encompasses the operation of all technical college-administered programs, federally financed programs, educational programs and activities involving admissions, scholarships and loans, student life, and athletics. It also applies to the recruitment and employment of personnel and contracting for goods and services.

All work and campus environments shall be free from unlawful forms of discrimination, harassment and retaliation as outlined under Title IX of the Educational Amendments of 1972, Title VI and Title VII of the Civil Rights Act of 1964, as amended, the Age Discrimination in Employment Act of 1967, as amended, Executive Order 11246, as amended, the Vietnam Era Veterans Readjustment Act of 1974, as amended, Section 504 of the Rehabilitation Act of 1973, as amended, the Americans With Disabilities Act of 1990, as amended, the Equal Pay Act, Lilly Ledbetter Fair Pay Act of 2009, the Georgia Fair Employment Act of 1978, as amended, the Immigration Reform and Control Act of 1986, the Genetic Information Nondiscrimination Act of 2008, the Workforce Investment Act of 1998 and other related mandates under TCSG Policy, federal or state statutes.

The Technical College System and Technical Colleges shall promote the realization of equal opportunity through a positive continuing program of specific practices designed to ensure the full realization of equal opportunity.

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 1 st Street, Vidalia Office 165 Phone: 912-538-3126 Email: Helen Thomas (hthomas@southeasterntech.edu)	Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1 st 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 Website](http://www.southeasterntech.edu) (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

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 202212 Lesson Plan
August 16, 2021 – December 6, 2021

WEEK 1

Date	Module	Content	Assignments & Test Due Dates	Competency Area
August 16 – 22	1	Class Introduction – Syllabi, Outline, Work Ethics, Rules, and Regulations Coverage	Logon to the course on BLACKBOARD. Complete <u>Pledge, Student Introduction, COVID 19 Presentation Acknowledgement, and Syllabus Quiz</u> on Blackboard. These 4 tasks must be completed no later than August 18, 2021 to remain in this class. Login to Blackboard and click on Lessons link Read and review Chapter 1 – Introduction to Network Security (Book) Complete <u>Quiz 1</u> (Blackboard).	a,c
Hybrid		Introduction to Network Security <ul style="list-style-type: none"> • Dangers to networks • Basic networking • Security terminology • Approaches to network security • Legal issues • Security resources 		
Lab			Complete <u>Labs</u> : 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 25.**

WEEK 2

Date	Module	Content	Assignments & Test Due Dates	Competency Area
August 23 - 29	2	Types of Attacks	Read and review Chapter 2 – Types of Attacks (Book) Complete <u>Quiz 2</u> (Blackboard). Complete <u>Discussion Topic 1</u> (Blackboard).	a,c
Hybrid		<ul style="list-style-type: none"> • Common network attacks • Types of defenses • Preventing DoS attacks • Preventing Trojan attacks • Preventing buffer overflow attacks 		
Lab			Complete <u>Labs</u> : 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 September 1.**

WEEK 3

Date	Module	Content	Assignments & Test Due Dates	Competency Area
August 30 – September 5 Hybrid	3	Fundamentals of Firewalls <ul style="list-style-type: none"> 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 8.**

WEEK 4

Date	Module	Content	Assignments & Test Due Dates	Competency Area
September 6		Holiday – No class		
September 7 – 12 Hybrid	4	Firewall Practical Applications <ul style="list-style-type: none"> 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 15.**

WEEK 5

Date	Module	Content	Assignments & Test Due Dates	Competency Area
September 13 – 19 Hybrid	5	Intrusion-Detection Systems <ul style="list-style-type: none"> • 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 22.**

WEEK 6

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
September 20 - 26 Hybrid	6	Encryption Fundamentals <ul style="list-style-type: none"> • 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 29.**

WEEK 7

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
September 27 – October 3 Hybrid	7	Virtual Private Networks <ul style="list-style-type: none"> • 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 6.**

WEEK 8

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 4 – 10 Hybrid	8	Operating System Hardening <ul style="list-style-type: none">• 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 13.**

WEEK 9

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 11 – 17 Hybrid	9	Defending Against Virus Attacks <ul style="list-style-type: none">• 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 20.**

WEEK 10

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 18 – 24 Hybrid	10	Defending Against Trojan Horses, Spyware, and Adware <ul style="list-style-type: none"> • 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 27.**

WEEK 11

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
October 25 – 31 Hybrid	12	Accessing System Security <ul style="list-style-type: none"> • 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 3.**

WEEK 12

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 1 – 7 Hybrid	14	Physical Security and Disaster Recovery <ul style="list-style-type: none"> • 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 10.**

WEEK 13

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 8 – 14 Hybrid	15	Techniques Used by Attackers <ul style="list-style-type: none"> • 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 17.**

WEEK 14

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 15 – 21 Hybrid	16	Introduction to Forensics <ul style="list-style-type: none"> • 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 December 2.**

WEEK 15

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 22 - 23	17	Cyber Terrorism <ul style="list-style-type: none"> • 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 2.**

WEEK 16

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
November 29 - December 2 Hybrid		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
Lab			Complete Labs : 17.3.1, 17.3.2	

***Week 16 assignments must be completed and turned in before midnight December 2.**

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.

Discussion board grading rubric

# of discussion posts	# of discussion replies	Grade	Due Date, Length, Grammar and Spelling Requirements
1	1	100	Students who post their initial discussion board response to the discussion board topic and reply to at least one other student's post will be given a 100 on the assignment <u>if</u> the post is turned in by the due date, contain 4-5 sentences and free of grammatical and spelling errors. The student will receive a two point deduction for each grammatical and spelling error in both their response and reply. A 10 point deduction will be given for any response or reply that is not 4-5 sentences in length. No credit will be given for any response or reply that is simply an answer of "yes/no" or "I agree/disagree." Replying to your own post is NOT considered a reply.
1	0	70	Any student that does not respond to at least one other student's post will not receive a grade above 70. The grade of 70 will be the highest grade that the student will be able to receive on the discussion post if the post is turned in by the due date, contain 4-5 sentences and free of grammatical errors and spelling errors. The student will receive a one point deduction for each grammatical and spelling error in their response. A 10 point deduction will be given for any response that is not 4-5 sentences in length. No credit will be given for any response or reply that is simply an answer of "yes/no" or "I agree/disagree." Replying to your own post is NOT considered a reply.
0	1	50	Students who only respond to one other student's post will not receive a grade above 50. The grade of 50 will be the highest grade that the student will be able to receive on the discussion response if the response is turned in by the due date, contain 4-5 sentences and free of grammatical errors and spelling errors. The student will receive a one point deduction for each grammatical and spelling error in their reply. A 10 point deduction will be given for any reply that is not 4-5 sentences in length. No credit will be given for any response or reply that is simply an answer of "yes/no" or "I agree/disagree." Replying to your own post is NOT considered a reply.
0	0	0	Students will receive a 0 on the discussion topic if the student does not post an answer or response to one other students' post by the due date. No credit will be given for any response or reply that is simply an answer of "yes/no" or "I agree/disagree." Replying to your own post is NOT considered a reply.