

CIST 2454 – CISCO Connecting Networks

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 or will be given to them during face to face class time the first day of the semester. The syllabus displayed in advance of the semester in a location other than the course you are enrolled in is for planning purposes only.



CIST 2454 – CISCO Connecting Networks

COURSE SYLLABUS

FALL Semester 2018 (FY 201912)

Aug 13, 2018 – Dec 5, 2018

COURSE INFORMATION

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

Class Location: **Room 812 Gillis Building, Vidalia Campus/Lab is in Room 815**

Class Meets: **Tuesday and Thursday, 10:15 AM -12:00 PM**

Lab Meets: **Tuesday, 5:00 PM - 8:00 PM**

CRN: **20369**

Preferred Method of Contact: **STC Email**

INSTRUCTOR CONTACT INFORMATION

Instructor Name: **John Taylor**

Email Address: [John Taylor \(jtaylor@southeasterntech.edu\)](mailto:jtaylor@southeasterntech.edu)

Campus/Office Location: **Vidalia Campus, Room 810 Gillis Building**

Office Hours: **2:00 PM – 4:30 PM Monday - 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 \(http://www.southeasterntech.edu/student-affairs/catalog-handbook.php\)](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php).

REQUIRED TEXT

Book Image	Book Information
	<p>Connecting Networks v6 Companion Guide</p> <p>ISBN-13: 978-1-58713-432-6 ISBN-10: 1-58713-432-2</p> <p>©2018 • Cisco Press • Paper, 512 pp</p> <p>You can purchase from the STC bookstore STC Bookstore or 912-538-3129.</p>

REQUIRED SUPPLIES & SOFTWARE

Internet Access is required.

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

COURSE DESCRIPTION

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. Students will configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Students will also learn how to implement a WLAN in a small-to-medium network.

MAJOR COURSE COMPETENCIES/OUTLINE

Hierarchical Network Design, Connecting to the WAN, Point-to-Point Connections, Frame Relay, Network Address Translation for IPv4, Broadband Solutions, Securing Site-to-Site Connectivity, Monitoring the Network, and Troubleshooting the Network.

PREREQUISITE(S)

CIST2453

GENERAL EDUCATION CORE COMPETENCIES

STC 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

- **Students are expected to come prepared for each class meeting, focused and ready to learn.** This means that it is necessary to read the chapters and work outside of class in order to succeed in this course. A detailed lesson schedule has been provided at the end of this syllabus.
- **Students MUST wear their STC id; one free lanyard is provided in the student affairs division. Students may NOT enter the classroom without their student id visible.** This is strictly enforced.

- Students should complete all work shown on the attached tentative lesson schedule by the scheduled deadlines, unless otherwise notified of a change in deadline.
- Homework will be collected for a grade. **Homework assignments will not be graded after the due date; a zero will be assigned if homework is not submitted on or before the due date.**
- There may be graded in-class activities planned in which you will not be able to participate if you are not prepared for that day's class.
- **Unannounced quizzes or in-class assignments are subject to be given every day. A grade of zero will be assigned for any quizzes or in-class assignments missed. There will be no makeup of quizzes or in-class assignments; a grade of zero will be assigned.**
- **Please make every effort to be in class every day.** However, if you are SICK and CONTAGIOUS, please do not come to class.
- Students are expected to complete all tests, labs, and other assignments on the dates specified on the attached lesson schedule.
- Instructor reserves the right to modify the tentative lesson schedule attached to this syllabus with notice.
- Students should subscribe to remind.com for reminder from the instructor via email or text. Instructions will be provided to students.
- Students are responsible for policies and procedures included in the STC Catalog and must acknowledge this by completing the PLEDGE Discussion Topic on Blackboard the first day of class.

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 Monday 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.

Late assignments will not be accepted. Students who miss any assignment, test, project, or discussion board will receive a grade of 0.

SPECIAL NEEDS

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, to coordinate reasonable accommodations.

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 advise me and make appropriate arrangements with [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, to coordinate reasonable accommodations.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (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 when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a “W” for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of “F” (Failing 0-59) being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A zero will be given for all missed assignments.)

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 speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of “W”, will count in attempted hour calculations for the purpose of Financial Aid.

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

EXIT EXAM

All Networking Specialist (Cisco track) diploma and degree students are required to pass the Capstone Exam of CIST2454 at the end of the semester. Students must score 70% or better on the Capstone Exam to successfully complete the course. Students scoring below 70 will be required to retake CIST2454.

WORK ETHICS

The Technical College System of Georgia instructs and evaluates students on work ethics in all programs of study. Ten work ethics traits have been identified and defined as essential for student success: appearance, attendance, attitude, character, communication, cooperation, organizational skills, productivity, respect, and teamwork. Students will be required to take a work ethics exam as marked in the lesson plan. A grade of 70 or better is required to complete the work ethics requirements for this class.

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. The proctored event will be administered on two separate days during the semester—once on the Vidalia campus and once on the Swainsboro campus and will be monitored by the instructor or another Southeastern Technical College employee. 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 further 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, 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 will receive an F in the course.**

As published on Southeastern Technical College's website, any expenses incurred to obtain a proctor will be the responsibility of the student; however, students are not charged a proctoring fee when taking the proctored exam on the campus of Southeastern Tech. Most of Georgia's technical colleges do not charge to proctor exams for students enrolled in other Technical College System of Georgia (TCSG) colleges. Students who are enrolled at Southeastern Technical College and live out of the state of Georgia or out of the country could incur a proctoring charge. However, in that instance, the instructor would assist the student in locating the least expensive proctor.

The required proctored event for this class is scheduled on the following dates and times: Vidalia Campus, 12/03/2018, 3:00 PM, Gillis Regional Medical Technology Building Room 812.

MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC...)

Students are required to take all tests scheduled during the semester. Failure to take Tests/Exam(s), and Lab assignments **will result in a grade of zero. There will be no makeup of Tests/Exams, Review Questions, or Labs.** If Internet or browser failure occurs, contact instructor immediately. A decision will be made at that time if the exam will be reset. Instructor reserves the right to deduct points from the exam scores for exceeding the scheduled time limit on the exam and/or requiring student to come to campus to take the final exam. **Note:** If student notifies instructor about exam 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 exam. **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. See Lesson Plan.**

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states 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 and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, 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 school is in compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

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 108 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's Website \(www.southeasterntech.edu\)](http://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
Chapter Exams	30%
Skills Exams	20%
Hands On Final	25%
Proctored Event/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

CIST 2454 – CISCO Connecting Networks

LESSON PLAN

FALL Semester 2018 (FY 201912)

You should have purchased a book for this course. The curriculum can and should be accessed thru the Cisco NetSpace as well. This online curriculum includes all interactive learning activities and provides an additional way to help your learn the course material. You will complete your chapter quizzes, exams and comprehensive final using the Cisco Network Academy NetSpace website. You should have received an email with information on logging in and setting up your account. Once you get logged in, I encourage you to download and install the Packet Tracer software. This is an excellent program that you will need installed to complete assignments as well as learn the concepts covered in this course. Contact your instructor if you have any questions. All necessary Packet Tracer and Lab files can be downloaded from course page.

Key: Aug = August, Sep = September, Oct = October, Nov = November, Dec = December

Week/ Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
Week 1 Aug 13 - 19		Introduction to Networks Review Routing and Switching Review	Complete <u>ITN Practice Skills Assessment – PT</u> Complete <u>RSE Practice Skills Assessment Part I – PT</u> Complete <u>RSE Practice Skills Assessment Part II – PT</u> WEEK 1 ASSIGNMENTS DUE 11:55 PM AUG 29	1,a-c
Week 2 Aug 20-26		Scaling Networks Review	Complete <u>ScaN OSPF Practice Skills Assessment – PT</u> Complete <u>ScaN EIGRP Practice Skills Assessment – PT</u> WEEK 2 ASSIGNMENTS DUE 11:55 PM SEP 5	1,a-c
Week 3 Aug 27- Sep 2	1.0	WAN Concepts	Read Chapter 1 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 1 <u>Exam</u> on NetSpace WEEK 3 ASSIGNMENTS DUE 11:55 PM SEP 5	1,a-c

Week/ Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
Week 4 Sep 3-9	2.0	Point-to-Point Connections	Read Chapter 2 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 2 Exam on NetSpace WEEK 4 ASSIGNMENTS DUE 11:55 PM SEP 19	2,4,a-c
Week 5 Sep 10-16	3.0	Branch Connections	Read Chapter 3 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 3 Exam on NetSpace WEEK 5 ASSIGNMENTS DUE 11:55 PM SEP 26	2,4,a-c
Week 6 Aug 17-23	3.0	Branch Connections (continued)	Take Chapter 3 Packet Tracer Skills Assessment - PT on NetSpace WEEK 6 ASSIGNMENTS DUE 11:55 PM SEP 26	2,4,a-c
Week 7 Sep 24-30	4.0	Access Control Lists	Read Chapter 4 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. WEEK 7 ASSIGNMENTS DUE 11:55 PM OCT 10	
Week 8 Oct 1-7	4.0	Access Control Lists (continued)	Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 4 Exam on NetSpace WEEK 8 ASSIGNMENTS DUE 11:55 PM OCT 10	
Week 9 Oct 8-14	5.0	Network Security Monitoring	Read Chapter 5 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 5 Exam on NetSpace WEEK 9 ASSIGNMENTS DUE 11:55 PM OCT 24	5,a-c

Week/ Date	Chapter	Content	Assignments & Tests Due Dates	Competency Area
Week 10 Oct 15-21	5.0	Network Security Monitoring (continued)	Take Chapter 5 <u>Packet Tracer Skills Assessment - PT</u> on NetSpace WEEK 10 ASSIGNMENTS DUE 11:55 PM OCT 24	5,a-c
Week 11 Oct 22-28	6.0	Quality of Service	Read Chapter 6 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 6 <u>Exam</u> on NetSpace WEEK 11 ASSIGNMENTS DUE 11:55 PM OCT 31	
Week 12 Oct 29- Nov 4	7.0	Network Evolution	Read Chapter 7 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 7 <u>Exam</u> on NetSpace WEEK 12 ASSIGNMENTS DUE 11:55 PM NOV 7	4, a-c
Week 13 Nov 5-11	8.0	Network Troubleshooting	Read Chapter 8 (Use web curriculum if possible) Complete Hands-on Labs and Packet Trace assignments on NetSpace as needed to learn material. Take Chapter 8 <u>Exam</u> on NetSpace WEEK 13 ASSIGNMENTS DUE 11:55 PM NOV 20	6, a-c
Week 14 Nov 12-18	8.0	Network Troubleshooting (continued)	Complete <u>CN Practice Skills Assessment - PT</u> WEEK 14 ASSIGNMENTS DUE 11:55 PM DEC 3	6, a-c
Week 15 Nov 19-20		Hands-on Final	Complete <u>Hands-on Final</u> in Lab. WEEK 15 ASSIGNMENTS DUE 11:55 PM DEC 3	1-6, a-c
Week 16 Nov 26- Dec 3		Final Exam Review Proctored Final Exam	Complete <u>Course Feedback</u> Survey on NetSpace. Take <u>Comprehensive Final Exam</u> on NetSpace. (In Classroom/Proctored) WEEK 16 ASSIGNMENTS DUE 11:55 PM DEC 3	1-6, a-c

COMPETENCY AREAS:

1. Introduction to WANs
2. Private WAN Technologies and Protocols
3. NAT
4. Public WAN Technologies and Protocols
5. Network Monitoring
6. Network Troubleshooting

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.