



TENTATIVE—SUBJECT TO CHANGE
CIST 2453 Cisco Scaling Networks
COURSE SYLLABUS
Online
Summer Semester 202016

COURSE INFORMATION

Credit Hours/Minutes: **4/4500**
Class Location: **Georgia Virtual Technical Connection (GVTC)/Blackboard/Cisco NetSpace**
Lab Location: **Via Internet for 9 weeks**
Class Meets: **Via Internet for 9 weeks**
Course Reference Number (CRN): **60032**
Preferred Method of Contact: **Email – John Taylor jtaylor@southeasterntech.edu**


INSTRUCTOR CONTACT INFORMATION

Instructor Name: **Mr. John Taylor**
Email Address: **[John Taylor \(jtaylor@southeasterntech.edu\)](mailto:John Taylor jtaylor@southeasterntech.edu)**
Campus/Office Location: **Vidalia Campus, Room 810 Medical Technology Building**
Office Hours: **2:00 – 4:30 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>).

OPTIONAL TEXT

Book Image	Book Information
	<p>Scaling Networks v6, Companion Guide</p> <p>Bob Vachon, Allan Johnson</p> <p>ISBN-13: 978-1-58713-434-0 ©2018 • Cisco Press • hardback</p> <p>You can purchase from the STC bookstore Southeastern Technical College bookstore (stcbookstore@southeasterntech.edu) or 912-538-3129</p>

REQUIRED SUPPLIES & SOFTWARE

Must have computer with Internet Access.

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

1. Designing Scalable Networks
2. LAN Redundancy
3. Link Aggregation
4. Wireless LANs
5. Advanced OSPF
6. EIGRP
7. IOS Images and Licensing

PREREQUISITE(S)

CIST 2452

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 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 each week. Assignments must be keyed in Microsoft Word, saved, uploaded, and attached for grading in Blackboard.

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.

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 **11:59PM on Wednesday** of the following 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: Macy Gay mgay@southeasterntech.edu, 478-289-2274, Building 1, Room 1208

Vidalia Campus: Helen Thomas hthomas@southeasterntech.edu, 912-538-3126, Building A, Room 108

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: Macy Gay mgay@southeasterntech.edu, 478-289-2274, Building 1, Room 1208

Vidalia Campus: Helen Thomas hthomas@southeasterntech.edu, 912-538-3126, Building A, Room 108

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 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.

ONLINE PROCTORED EVENT WITHDRAWALS

Students who do not complete the proctored exam for an online class on the scheduled date and do not present a valid excuse within three business days of the scheduled event will be withdrawn from the course with a "WF" (Withdrawn Failing) and will be disabled in their online class. If the proctored event is scheduled during final exams, any student who misses the proctored exam will receive an "F" for the course.

PROCTORED EVENT

Due to the uncertainties of COVID-19, this event will not be proctored for Summer Semester 202016. Students will complete the event, but will not be required to come on campus to do it.

The event may be a major exam, assignment, or presentation, etc. that will count a minimum of 20% of the course grade. Students who do not complete the 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. Events will be given after the 65% point of the semester. **Students who do not complete the event on the scheduled date and do not present a valid documented excuse within three business days of the scheduled event will be withdrawn from the course with a "WF" (Withdrawn Failing). If the event is scheduled during final exams, any student who misses the event will be issued an "F" (Failing) for the course.**

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 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. The due dates are posted on the lesson plan. Weeks start on Monday and end on Sunday with assignments due on Wednesday at midnight of the following week. See Lesson Plan. Makeups are not allowed for unannounced quizzes/assignments.

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 Student 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:

<p>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</p>	<p>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</p>
<p>Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1st Street, Vidalia Office 108 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu</p>	<p>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</p>

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
Comprehensive Final Exam	25%
Hands-On Skills Exam	25%
Chapter Exams	25%
Packet Tracer Exams	25%
Total	100%

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 STATEMENTS

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 2453 Cisco Scaling Networks

LESSON PLAN

Summer Semester 2020 (FY202016)

May 26, 2020 – July 30, 2020

WEEK 1

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
May 26 – 31	1	Class Introduction – Syllabi, Outline, Work Ethics, Rules, and Regulations Coverage LAN Design	Verify NetSpace login. Read Chapter 1 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 1 <u>Exam</u> on NetSpace. Review Networking skills and complete <u>NB ITN Practice Skills Assessment – PT</u> on NetSpace.	1 a,c

***Week 1 assignments must be completed and turned in before midnight June 10.**

WEEK 2

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
June 1 - 7	2	Scaling VLANs	Read Chapter 2 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 2 <u>Exam</u> on NetSpace. Review Routing and Switching skills and complete <u>RSE Practice Skills Assessment (Part 1) – PT</u> on NetSpace.	1 a,c

***Week 2 assignments must be completed and turned in before midnight June 17.**

WEEK 3

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
June 8 - 14	3 4	STP EtherChannel and HSRP	Read Chapter 3 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 3 <u>Exam</u> on NetSpace. Read Chapter 4 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 3 <u>Exam</u> on NetSpace.	1,3 a,c

***Week 3 assignments must be completed and turned in before midnight June 24.**

WEEK 4

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
June 15 - 21	5	Dynamic Routing	Read Chapter 5 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 5 <u>Exam</u> on NetSpace. Review Routing and Switching skills and complete <u>RSE Practice Skills Assessment (Part 2) – PT</u> on NetSpace.	1 a,c

***Week 4 assignments must be completed and turned in before midnight July 1.**

WEEK 5

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
June 22 - 28	6	EIGRP	Read Chapter 6 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 6 <u>Exam</u> on NetSpace.	1,6 a,c

***Week 5 assignments must be completed and turned in before midnight July 8.**

WEEK 6

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
June 29 – July 5	7	EIGRP Tuning and Troubleshooting	Read Chapter 7 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 7 Exam on NetSpace. Review EIGRP skills and complete <u>ScaN Practice Skills Exam EIGRP – PT</u> on NetSpace.	1,6 a,c

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

WEEK 7

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
July 6 - 12	8	Single-Area OSPF	Read Chapter 8 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 8 Exam on NetSpace.	1,5 a,c

***Week 7 assignments must be completed and turned in before midnight July 22.**

WEEK 8

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
July 13 - 19	9	Multiarea OSPF	Read Chapter 9 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 9 Exam on NetSpace.	1,5 a,c

***Week 8 assignments must be completed and turned in before midnight July 29.**

WEEK 9

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
July 20 - 26	10	OSPF Tuning and Troubleshooting	Read Chapter 10 in book. Work on <u>Packet Tracer Activities and Labs</u> to re-enforce the chapter concepts. Take Chapter 10 Exam on NetSpace.	1,5 a,c

***Week 9 assignments must be completed and turned in before midnight July 29.**

WEEK 10

Date	Chapter	Content	Assignments & Test Due Dates	Competency Area
July 27 - 30			Complete Hands-On Final and submit completed PT file. Take Final Exam on NetSpace.	1,5 a,c

***Week 10 assignments must be completed and turned in before midnight July 30.**

COMPETENCY AREAS:

1. Designing Scalable Networks
2. LAN Redundancy
3. Link Aggregation
4. Wireless LANs
5. Advanced OSPF
6. EIGRP
7. IOS Images and Licensing

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.