

# **CIST 2454 – Cisco Connecting Networks**

## **\*\*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 2454 – Cisco Connecting Networks**  
**COURSE SYLLABUS**

**\*HYBRID**

**Summer Semester 2017**

**\*\*TENTATIVE – SUBJECT TO CHANGE**

**Semester:** 201716 Summer 2017  
**Course Title:** Cisco - Connecting Networks  
**Course Number:** CIST 2454  
**Credit Hours/ Minutes:** 4 / 4500  
**Class Location:** Room 812 Gillis Building  
**Class Meets:** T/R 10:00 – 11:50am / 9 weeks  
T 6:00-9:00pm  
65% in class and 35% online

**Instructor:** John Taylor  
**Office Hours:** 3-5:30 pm M-Th  
**Office Location:** Room 810, Gillis Building  
**Email Address:** [jtaylor@southeasterntech.edu](mailto:jtaylor@southeasterntech.edu)  
**Phone:** 912-538-3116  
**Fax Number:** 912-538-3106  
**CRN:** 60174

**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.**

**REQUIRED TEXT:** Will use online text provided.

**REQUIRED SUPPLIES & SOFTWARE:** Internet Access and Cisco Packet Tracer software.

**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.

**PREREQUISITES:** CIST 2453

**MAJOR COURSE COMPETENCIES:** 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.

**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.

**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.

**CAPSTONE 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.

**STUDENT REQUIREMENTS (Hybrid):** Students are expected to complete all work shown on the attached assignment sheet. Students are also expected to complete all tests and comprehensive problems on the dates specified on the attached calendar. **Students will have at least one week to complete tests and assignments. All tests and assignments are due at 11:55 PM on Wednesday of each week. Assignments will be submitted thru Cisco NetSpace.** Assignments are given with numerous days to complete; therefore **no assignment will be accepted late. After the due date a grade of zero will be given.** 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 are responsible for policies and procedures included in the *STC Catalog*. **CIST program students must earn a minimum grade of C in this course.** **Unannounced quizzes/assignments may be given. Students who miss an unannounced quiz or assignment will receive a grade of 0.**

**EMAILS:** Prefer method of communication should be thru **STC student EMAIL**. 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: CIST2454 Taylor**

**CHECKING GRADES:** A grade book is made available in the BLACKBOARD course on the main page when students log in. This grade book is for students to review and is continuously updated throughout the semester. Students can click **My Grades** on the menu 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.

**SURFING THE WEB WHILE IN CLASS:** For each time a student is caught on Facebook or a site that is not approved by the instructor, student will be dismissed from class with an absence given for attendance.

**CELL PHONE USING IN CLASS:** Cell phone usage is not allowed in the classroom. Any student caught using a phone or answering a call during class will have a 5 point deduction on the next Exam/Test.

**ATTENDANCE GUIDELINES:** 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 also 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 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.**

**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, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu), 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, 912-538-3126, [hthomas@southeasterntech.edu](mailto:hthomas@southeasterntech.edu).

**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" 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' 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 also speak with a representative of the Financial Aid Office to determine any financial penalties that may be accessed 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.

**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.**

**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 semester. (For **SUMMER semester, that day will be May 22, 2017.**) **The student must formally withdraw from classes in order to receive the no harm-no foul benefit.**

**DROPPING COURSES BEFORE THE CLASS HAS BEGUN:** Students wishing to withdraw from one or all courses prior to the first day of class need to go to Banner Web and drop their classes. Please note that a registration access number will be needed as well as a student's ID number and PIN. If the registration access number is unknown, the student will need to contact the registrar.

**ACADEMIC DISHONESTY POLICY:** The STC 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 STC Catalog and Student Handbook.

#### **Procedure for Academic Misconduct**

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

##### **--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.

**--Second Offense--**

Student is given a grade of "WF" 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.

**--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 second 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:

<b>ADA/Section 504 - Equity- Title IX (Students) - OCR Compliance Officer</b>	<b>Title VI - Title IX (Employees) - EEOC Officer</b>
Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 108 Phone: 912-538-3126 <a href="mailto:hthomas@southeasterntech.edu">hthomas@southeasterntech.edu</a>	Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1 <sup>st</sup> Street, Vidalia Office 138B Phone: 912-538-3147 <a href="mailto:bwilcox@southeasterntech.edu">bwilcox@southeasterntech.edu</a>

**GRIEVANCE PROCEDURES:** Grievance procedures can be found in the Catalog and Handbook located on STC'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 STC website at [www.southeasterntech.edu](http://www.southeasterntech.edu).

Grading Policy			Grading Scale		
Comprehensive Final	25%		A	EXCELLENT	100-90
Hands-on Skills Final	20%		B	GOOD	89-80
Chapter Quizzes	30%		C	SATISFACTORY	79-70
Packet Tracers/Labs	20%		D*	POOR	69-60
Work Ethics	5%		F*	FAILING	59-0
TOTAL	100%		* Grade of D or below results in student repeating the class		

**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.*

**CIST 2454 – Connecting Networks**  
**Summer Semester 2017 Lesson Schedule (Fiscal Year 2017)**

Date	Chap / Less	Content	Assignments & Tests Due	Competency Area
<p><b>You should have purchased a book and lab manual for this course. The curriculum can also be accessed thru Cisco NetSpace. This online curriculum includes all interactive learning activities and provides an additional way to help you learn the course material. You will complete your chapter quizzes, exams and comprehensive final using the Cisco Network Academy NetSpace website. Packet Tracer software is required for this course, so I encourage you to download and install the newest version of Packet Tracer software, if you don't already have it. Contact your instructor if you have any questions.</b></p>				
<b>Week 1 (Assignments due May 24)</b>				
Thu May 18	1	Class Introduction – Syllabi, Outline, Work Ethics, Rules, and Regulations Coverage <b>Hierarchical Network Design</b>	Verify NetSpace login. Discuss Packet Tracer. Review Web curriculum. Review Course Introduction (book) Read Chapter 1 (Use web curriculum if possible)	1 A,C
hybrid			Take Chapter 1 <b>Exam</b> on NetSpace. Read Chapter 2 & 3 (Use web curriculum if possible)	1 A,C
<b>Week 2 (Assignments due May 31)</b>				
Tue May 23	2 3	<b>Connecting to the WAN</b> <b>Point-to-Point Connections</b>	Review Chapter 3 (Use web curriculum if possible)	2 A,C
Lab			Work on <b>Hands-on Labs</b> for Chapter 3 in Networking Lab.	2 A,C
Thu May 25			Complete <b>Packet Trace - 3.5.1.2 Skills Integration Challenge</b> on NetSpace.	2 A,C
hybrid			Take Chapter 2 <b>Exam</b> on NetSpace Take Chapter 3 <b>Exam</b> on NetSpace. Read Chapter 4 (Use web curriculum if possible)	2 A,C
<b>Week 3 (Assignments due Jun 7)</b>				
Tue May 30	4	<b>Frame Relay</b>	Review Chapter 4 (Use web curriculum if possible)	2 A,C
Lab			Complete on <b>Hands-on Labs</b> for Chapter 4 in Networking Lab.	2 A,C
Thu Jun 1			Complete Chapter 4 <b>Packet Tracer – 4.2.2.6 Configuring Frame relay Point-to-Point Subinterfaces</b> on NetSpace.	2 A,C
hybrid			Take Chapter 4 <b>Exam</b> on NetSpace. Read Chapter 5 (Use web curriculum if possible)	2 A,C
<b>Week 4 (Assignments due Jun 14)</b>				
Tue Jun 6	5	<b>Network Address Translation for IPv4</b>	Review Chapter 5 (Use web curriculum if possible) Review Chapter 6 (Use web curriculum if possible)	3,4 A,C
Lab			Complete on <b>Hands-on Labs</b> for Chapter 5 in Networking Lab.	3,4 A,C
Thu			Complete <b>Packet Trace – 5.4.1.2 Skills</b>	3,4



Jun 8			<b>Integration Challenge</b> on NetSpace.	A,C
hybrid			Take Chapter 5 <b>Exam</b> on NetSpace. Read Chapter 6 (Use web curriculum if possible)	3,4 A,C
<b>Week 5 (Assignments due Jun 21)</b>				
Tue Jun 13	6	<b>Broadband Solutions</b>	Review Chapter 6 (Use web curriculum if possible)	3,4 A,C
Lab			Complete on <b>Hands-on Labs</b> for Chapter 6 in Networking Lab.	3,4 A,C
Thu Jun 15			Complete <b>Work Ethics Assessment</b> .	3,4 A,C
hybrid			Take Chapter 6 <b>Exam</b> on NetSpace Read Chapter 7 (Use web curriculum if possible)	3,4 A,C
<b>Week 6 (Assignments due Jun 28)</b>				
Tue Jun 20	7	<b>Securing Site-to-Site Connectivity</b>	Review Chapter 7 (Use web curriculum if possible)	A,C
Lab			Complete on <b>Hands-on Labs</b> for Chapter 7 in Networking Lab.	A,C
Thu Jun 22			Complete <b>Packet Trace – 7.5.1.2 Skills Integration Challenge</b> on NetSpace.	A,C
hybrid			Take Chapter 7 <b>Exam</b> on NetSpace. Read Chapter 8 (Use web curriculum if possible)	A,C
<b>Week 7 (Assignments due Jul 12)</b>				
Tue Jun 27	8	<b>Monitoring the Network</b>	Review Chapter 8 (Use web curriculum if possible)	5 A,C
Lab			Complete on <b>Hands-on Labs</b> for Chapter 8 in Networking Lab.	5 A,C
Thu Jun 29			Complete <b>Packet Trace – 8.1.2.5 Configuring Syslog and NTP</b> on NetSpace.	5 A,C
hybrid			Take Chapter 8 <b>Exam</b> on NetSpace. Read Chapter 9 (Use web curriculum if possible)	5 A,C
<b>Week 8 (Assignments due Jul 19)</b>				
Tue Jul 11	9	<b>Troubleshooting the Network</b>	Review Chapter 9 (Use web curriculum if possible)	6 A,C
Lab			<b>Review for hands-On Final.</b>	6 A,C
Thu Jul 13			Complete <b>Packet Trace – 9.3.1.2 Skills Integration Challenge</b> on NetSpace.	6 A,C
hybrid			Take Chapter 9 <b>Exam</b> on NetSpace. Prepare for Hands-On and Final Exams.	6 A,C
<b>Week 9 (Assignments due Jul 25)</b>				
Tue Jul 18			Final Exam Review.	1-6 A,C
Lab			Work <b>Hands-On Final Exam</b>	1-6 A,C

Thu Jul 20			Complete <u>Hands-On Final Exam</u>	1-6 A,C
hybrid			Take <u>CN Practice Skills Assessment</u> on NetSpace	6 A,C
<b>Week 10 (Assignments due Jul 25)</b>				
Tue Jul 25			Complete <u>Course Feedback</u> Survey on NetSpace. Take <u>Comprehensive Final Exam</u> on NetSpace.	

**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 Competency Areas:**

- 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.