



CIST1401 Computer Networking Fundamentals
COURSE SYLLABUS
Hybrid
Fall Semester 2018

COURSE INFORMATION

Credit Hours/Minutes: 4/4500

Class Location: Building 6, Room 2106, Swainsboro Campus

Class Meets: Monday & Wednesday 8:45 AM – 10:15 PM

CRN: 20158

Preferred Method of Contact: STC Email: jpowers@southeasterntech.edu

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Mr. Jamie Powers

Office Location: Building 6, Room 2106, Swainsboro Campus

Office Hours: 2:00 – 4:30 Monday - Thursday

Email Address: jpowers@southeasterntech.edu

Phone: 478-289-2221

Fax Number: 478-289-2276

Tutoring Hours (if applicable): 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.

REQUIRED TEXT

No Text Purchase is required. Students will access the e-textbook which is included with the TestOut website course program. Students are required to purchase the Access Code : TestOut Network Pro ISBN 978-1-935080-43-5 from the STC Bookstore or from www.TestOut.com

REQUIRED SUPPLIES & SOFTWARE

One USB Flash Drive.

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 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.

COURSE DESCRIPTION

Introduces networking technologies and prepares students to take the CompTIA's broad-based, vendor

independent networking certification exam, Network +. This course covers a wide range of material about networking, including local area networks, wide area networks, protocols, topologies, transmission media, and security. Focuses on operating network management systems, and implementing the installation of networks. It reviews cabling, connection schemes, the fundamentals of the LAN and WAN technologies, TCP/IP configuration and troubleshooting, remote connectivity, and network maintenance and troubleshooting. Topics include: basic knowledge of networking technology, network media and topologies, network devices, network management, network tools and network security.

MAJOR COURSE COMPETENCIES

Networking technologies, network media and topologies, network devices, network management, network tools, and network security.

PREREQUISITE(S)

Program Admission

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 (HYBRID)

Students are expected to complete all tests and assignments by the due dates. 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 that miss an unannounced quiz or assignment will receive a grade of 0.**

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 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, 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.

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 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.

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, 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 Monday at 11:55 PM. See Lesson Plan.

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:

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" 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:

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

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](#).

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
Exam Questions	30
LabSims	30
Discussion Boards	10
Final Exam	30

GRADING SCALE

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

Discussion Board Grading Rubrics:

Criteria Weight	Exceptional 100	Proficient 90	Satisfactory 70	Poor 50	Unacceptable 0
Grammar/ Spelling 25.00 %	<ul style="list-style-type: none"> No grammatical or spelling errors (25 points) 	<ul style="list-style-type: none"> Grammatical and spelling errors are few and cause no comprehension problems. (22.5 points) 	<ul style="list-style-type: none"> Grammatical and spelling errors cause the reader to reread many parts of the post. (17.5 points) 	<ul style="list-style-type: none"> Grammatical and spelling errors are frequent making posts confusing to read and comprehend. (12.5 points) 	<ul style="list-style-type: none"> Grammatical and spelling errors are so numerous that the post is hard or impossible to comprehend. (0 points)
Posts & Word Count 25.00%	<ul style="list-style-type: none"> Posts early to allow time to read and reply Publishes at least one original post and at least one reply 125 - 150 words in main thread (25 points) 	<ul style="list-style-type: none"> Posts early to allow others time to read and reply Publishes one post and one reply 80 – 124 words in main thread (22.5 points) 	<ul style="list-style-type: none"> Posts at the last minute without allowing enough time for others to read and reply. Publishes one post and no replies 26 – 79 words in main thread (17.5 points) 	<ul style="list-style-type: none"> Posts at the last minute without allowing enough time for others to read and reply. Publishes no posts and one reply 0-25 words in main thread (12.5 points) 	<ul style="list-style-type: none"> Publishes no posts or replies (0 points)
Critical Thinking NO COPYING AND PASTING FROM WEBSITES. If any information comes from a website it must be cited as a resource. 25.00%	<ul style="list-style-type: none"> Content provides a thorough frame of reference for comprehending the solution; an original solution is provided. Numerous Resources listed (25 points) 	<ul style="list-style-type: none"> Content provides appropriate factual data but is not original or complete to solve problem or topic. Resources listed (22.5 points) 	<ul style="list-style-type: none"> Content attempts to solve problem or topic but is too vague or disorganized to completely comprehend solution. Few resources listed (17.5 points) 	<ul style="list-style-type: none"> Content is not a realistic solution to the problem or topic. One resource listed (12.5 points) 	<ul style="list-style-type: none"> Content fails to offer a conscientious solution to selected problem or topic. No resource listed (0 points)
Explanation 25.00%	<ul style="list-style-type: none"> All Steps are covered. Questions are answered correctly. (25 points) 	<ul style="list-style-type: none"> Most Steps are covered and answered correctly. (22.5 points) 	<ul style="list-style-type: none"> Most steps are covered but not answered correctly. (17.5 points) 	<ul style="list-style-type: none"> Less than half of the steps are covered and answered correctly. (12.5 points) 	<ul style="list-style-type: none"> Less than half of the steps are covered and not answered correctly. (0 points)

CIST1401 Computer Networking Fundamentals

Fall Semester 2018 Lesson Plan

WEEK 1 (ASSIGNMENTS DUE 11:55 PM AUG 21)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Aug 14		Class Introduction – Syllabus, Outline, Rules, and Regulations Coverage, Completion of Forms In Class	Login to Blackboard: Complete each item in the Getting Started Section	a,d
15		Online	Get your TestOut Access Code	1,a,c
16	0 1	Introduction to TestOut Course Introduction In Class	Complete all Module 0 Complete Module 1 (1.1-1.3)	1,a,c
17		Online	Complete Module 1 (1.4-1.6)	1,a,c

WEEK 2 (ASSIGNMENTS DUE 11:55 PM AUG 28)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Aug 21	2	Cables and Connectors In Class	COMPLETE MODULES 2.1 – 2.3	1,4,a,c
22		Online	Complete Practice Questions 2.1.4, 2.2.4, 2.3.4	1,4,a,c
23		In Class	Complete Modules 2.4 – 2.5	1,4,,a,c
24		Online	Complete Practice Questions 2.4.8, 2.5.7 Complete Discussion Board 1	1,4,,a,c

WEEK 3 (ASSIGNMENTS DUE 11:55 PM SEPT 5)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Aug 28	3	Networking Devices In Class	Complete Modules 3.1-3.2	1,2,3,a,c
29		Online	Complete Practice Questions 3.1.5, 3.2.5 Complete Discussion Board 2	1,2,3,a,c,

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
30	4	Ethernet In Class	Complete Module 3.3 Complete Modules 4.1 – 4.3	1,2,3,a,c
31		Online	Complete Practice Questions 3.3.4, 4.1.3, 4.2.4, 4.3.4	4,5,a,c

WEEK 4 (ASSIGNMENTS DUE 11:55 PM SEPT 11)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Sept 4		Labor Day	HOLIDAY	
5		Online	Complete Discussion Board 3	4,5,a,c
6	4	Ethernet In Class	Complete Module 4.4	4,5,a,c,d,c
7		Online	Complete Practice Questions 4.4.10	4,5,a,c

WEEK 5 (ASSIGNMENTS DUE 11:55 PM SEPT 18)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Sept 11	5	Configuration In Class	Complete modules 5.1 – 5.3	2,4,c
12		Online	Complete Practice Questions 5.1.10, 5.2.5, 5.3.10	2,4,c
13		In Class	Complete Modules 5.4 – 5.7	2,4,c
14		Online	Complete Practice Questions 5.45, 5.5.10, 5.6.10, 5.7.3	2,4,c

WEEK 6 (ASSIGNMENTS DUE 11:55 PM SEPT 25)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Sept 18	5	Configuration In Class	Complete Modules 5.8 – 5.10	1,2,3,4,c
19		Online	Complete Practice Questions 5.8. 10, 5.9.7, 5.10.5	1,2,3,4,c
20	6	Switch Management In Class	Complete Modules 6.1 – 6.4	1,2,3,4,c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
21		Online	Complete Practice Questions 6.1.10, 6.2.5, 6.3.8, 6.4.7	1,2,3,4,c

WEEK 7 (ASSIGNMENTS DUE 11:55 PM OCT 2)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Sept 25	6/7	Switch Management/Routing In Class	Complete Modules 6.5 – 7.5	1,2,3,4,c
26		Online	Complete Practice Questions 6.5. 9, 6.6.10, 6.7.3, 7.1.3, 7.2.8, 7.3.6, 7.4.5, 7.5.6 Complete Discussion Board 4	1,2,3,4,c
27	8	Firewalls In Class	Complete Modules 8.1 – 8.2	1,2,3,4,c
28		Online	Complete Practice Questions 8.1.6, 8.2.5, 8.3.9	1,2,3,4,c

WEEK 8 (ASSIGNMENTS DUE 11:55 PM OCT 9)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Oct 2	9	Network Customization In Class	Complete Modules 9.1 – 9.6	1,2,3,c
3		Online	Complete Practice Questions 9.1.9, 9.2.7, 9.3.4, 9.4.6, 9.5.3, 9.6.3	
4	10	Wireless Networking In Class	Complete Modules 10.1 – 10.4	1,2,3,4,c
5		Online	Complete Practice Questions 10.1.5, 10.2 6, 10.3.7, 10.4. 8 Complete Discussion Board 5	1,2,3,4,c

WEEK 9 (ASSIGNMENTS DUE 11:55 PM OCT 16)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Oct 9	10	Wireless Networking In Class	Complete Modules 10.5 – 10.7	1,2,3,4,c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
10		Online	Complete Practice Questions 10.5.5, 10.6.7, 10.7.9	
11	11	Wide Area Networks In Class	Complete Modules 11.1 – 11.5	1,2,3,4,c
12		Online	Complete Practice Questions 11.1.7, 11.2.5, 11.3.5, 11.4.5, 11.5.4	1,2,3,4,c

WEEK 10 (ASSIGNMENTS DUE 11:55 PM OCT 23)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Oct 16	12	Network Policies and Procedures In Class	Complete Modules 12.1 – 12.4	1,3,4,5,c
17		Online	Complete Practice Questions 12.1.8, 12.2.8, 12.3.5, 12.4.7	
18	13	Network Security In Class	Complete Modules 13.1 – 13.4	1,3,4,5,c
19		Online	Complete Practice Questions 13.1.4, 13.2.5, 13.3.9, 13.4.8	1,3,4,5,c

WEEK 11 (ASSIGNMENTS DUE 11:55 PM OCT 30)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Oct 23	13	Network Security In Class	Complete Modules 13.5 – 13.8	4,5,6,c
24		Online	Complete Practice Questions 13.5.6, 13.6.4, 13.7.6, 13.8.5	4,5,6,c
25	14	Network Hardening In Class	Complete Modules 14.1 – 14.4	4,5,6,c
26		Online	Complete Practice Questions 14.1.9, 14.2.4, 14.3.9, 14.4.7	4,5,6,c

WEEK 12 (ASSIGNMENTS DUE 11:55 PM NOV 6)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Oct 30	15	Network Management In Class	Complete Modules 15.1 – 15.5	3,4,5,c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
31		Online	Complete Practice Questions 15.1.4, 15.2.8. 15.3.5, 15.4.7, 15.5.8	
Nov 1		In Class	Complete Modules 15.6 – 15.8	3,4,5,c
2		Online	Complete Practice Questions 15.6.8, 15.7.4, 15.8.4	3,4,5,c

WEEK 13 (ASSIGNMENTS DUE 11:55 PM NOV 13)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Nov 6	16	Network Optimization In Class	Complete Modules 16.1 – 16.2	1,4,5,b,c
7		Online	Complete Practice Questions 16.1.8, 16.2.5	
8		In Class		1,2,3,c
9		Online		1,a,c

WEEK 14 (ASSIGNMENTS DUE 11:55 PM NOV 20)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Nov 20		Network+ Practice In Class	Complete Network+ Domain 1	1,4,5,b,c
21		Online	Complete Network+ Domain 1	1,4,5,b,c
22		Network+ Practice In Class	Complete Network+ Domain 2	1,4,5,b,c
23		Online	Complete Network+ Domain 2	4,a,c

WEEK 15 (ASSIGNMENTS DUE 11:55 PM NOV 30)

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Nov 20		Network+ Practice In Class	Complete Network+ Domain 3	4,a,c
21		Online	Complete Network+ Domain 3	4,a,c
22-23	H	THANKSGIVING HOLIDAYS		

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Nov 27		Network+ Practice In Class	Complete Network+ Domain 4	4,a,b,c
28		Network+ Practice Online	Complete Network+ Domain 5	4,a,b,c
29		Last day of class In Class	Final Exam CompTIA	1,2,3,4,5,6,a,b,c
30		Semester Ends		

Competency Areas: (will vary for each course/taken from state standards)

1. **1. Networking technologies**
2. **2. Network media and topologies**
3. **3. Network Devices**
4. **4. Network management**
5. **5. Network tools**
6. **6. Network Security**

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.