Cocke County High School CTE Center

Computer Foundations
2025-2026 Syllabus

Part 1: Course Information

Instructor Information

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Course Description

The Tennessee Computer Science Foundations course is intended to teach students the fundamentals of computer science in a project-based learning environment. The full course is designed to cover the core requirements and all four focus areas, however specific modules can be removed if a particular focus area is not needed for the class.

Students will learn the basics of computer technology, including computer hardware, software, the Internet, cloud computing, and cybersecurity.

Prerequisite

There are no prerequisites for the Tennessee Computer Science Foundations course.

General Education/High School Pathway Area

· This is the first course in the Information Technology pathway.

Textbook & Course Materials

Required Text

Computers: Understand Technology 5th edition

Course Requirements

Jump Drive for transferring of files, Notebook paper/folder, and pencil.

Course Structure

This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example programs to explore, and written programming exercises, adding up to possibly over 100 hours of hands-on programming practice in total. Several units' end with a comprehensive unit test that assesses students' mastery of the material from that unit as well as challenge problems where students can display their understanding of the material.

Part 2: Student Learning Outcomes

The student learning outcomes for the course can be found in the Tennessee State Standards Course Pacing Guides and other resources pertaining to this course. These can be found on Tennessee.gov website under academic standards.

Upon completion of this course, proficient students will be able to master 75% of the material covered in the areas of:

1) Foundational Concepts
2) Algorithmic Thinking
3) Programming Concepts
4) Data and Analysis
5) Networking and the Internet
6) Impacts of Computing

You will meet the objectives listed above through a combination of the following activities in this course:
1. Instruction

2. Activities

3. Testing

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Part 3: Topic Outline/Schedule

Semester 1

Units	Topic	Readings/ Resources	Activities	Due Date
1	Safety/Procedures/Rules/Expectations	Powerpoint/Lecture	Powerpoint/Lecture	
2	Cybersecurity	Code HS	Code HS/Handouts	
3	Computing	Code HS	Code HS/Project	
4	Electrical Circuits	Code HS	Code HS/Project	
5	Data	Code HS	Code HS/Handouts	
6	The Internet	Code HS	Code HS/Project	
7	Cloud Computing	Code HS	Code HS/Handout	
8	Digital Information	Code HS	Code HS/Handouts	
9	Programming with Karel	Code HS	Code HS/Handouts	
10	Web Design	Code HS	Code HS/Project	

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Part 4: Grading Policy

Graded Course Activities

Assignments for details about each assignment listed below.

1st 9 Weeks	
Points	**Description**
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.
2nd 9 Weeks	
Points	**Description**
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.

3rd 9 Weeks	
Points	**Description**
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.
4th 9 Weeks	
Points	**Description**
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.
100%	Class work, Group Work, Quiz, Unit Tests, Absenteeism, Will determine student grade.

Late Work Policy

 Be sure to pay close attention to deadlines—there will be no make-up assignments or quizzes, or late work accepted without a serious and compelling reason and instructor approval.

Viewing Grades in ASPEN (optional)

Points you receive for graded activities will be posted to the ASPEN Grade Book. Click on the My Grades link on the left navigation to view your points.

Letter Grade Assignment

Final grades assigned for this course will be based on the percentage of total points earned and are assigned as follows:

All Class work, Quiz, Skills, and Tests will count as 100%.

Grading Scale

Letter Grade	Percentage	Performance
A	93-100	Excellent Work
B	85-92	Good Work
C	75-84	Average Work
D	70-74	Below Average Work
F	0-69	Failing Work

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Part 5: Course Policies

Attend Class

Students are expected to attend all class sessions as listed on the course calendar.

Participate

I will monitor all group and team assignments to make sure that everyone is participating. If not, your grade will be adjusted accordingly.

Build Rapport

If you find that you have any trouble keeping up with assignments or other aspects of the course, make sure you let your instructor know as early as possible. As you will find, building rapport and effective relationships are key to becoming an effective professional. Make sure that you are proactive in informing your instructor when difficulties arise during the semester so that they can help you find a solution.

Complete Assignments

Assignments must be submitted by the given deadline or special permission must be requested from instructor *before the due date*. Extensions will not be given beyond the next assignment except under extreme circumstances.

All discussion assignments must be completed by the assignment due date and time. Late or missing discussion assignments will affect the student's grade.

Incomplete Policy

Under emergency/special circumstances, students may petition for an incomplete grade. An incomplete will only be assigned upon approval by the principal and timeframe will be determined.

Academic Dishonesty Policy

1. Academic dishonesty includes such things as cheating, inventing false information or citations, plagiarism and helping someone else commit an act of academic dishonesty. It usually involves an attempt by a student to show possession of a level of knowledge or skill that he/she does not possess.

2. Course instructors have the initial responsibility for detecting and dealing with academic dishonesty. Instructors who believe that an act of academic dishonesty has occurred are obligated to discuss the matter with the student(s) involved. Instructors should possess reasonable evidence of academic dishonesty. However, if circumstances prevent consultation with student(s), instructors may take whatever action (subject to student appeal) they deem appropriate.

3. Instructors who are convinced by the evidence that a student is guilty of academic dishonesty shall assign an appropriate academic penalty. If the instructors believe that the academic dishonesty reflects on the student's academic performance or the academic integrity in a course, the student's grade should be adversely affected.

Student Testing Code of Ethics and Security

It is important for you as a student to know that the following guidelines are to be strictly followed. This year the TNReady EOC test will count at least 15% of your final semester grade. Your work on this test is very important and it deserves your best effort. I understand that during testing on the days of the assessment, I am responsible for:

· Not having any electronic devices on me or in my

   purse/backpack/pockets

- o Including but not limited to cell phones, smart phones, smart watches, etc. **during testing or during breaks.**

- o Best practice is for students to leave devices at home or in their lockers on the day of testing.

- o If I am caught with a device during testing or during breaks, my test may be <u>nullified, resulting in a zero as at least 15% of my</u> <u>semester grade</u>, and any school level disciplinary action as deemed appropriate by the administration.

· Trying my best on the test

- o If I do not attempt to test (I give **no answers or randomly answer** questions) my test score may be <u>nullified, resulting in a</u> <u>zero as at least 15% of my</u> <u>semester grade</u>, and any school level disciplinary action as deemed appropriate by the administration.

- o The testing administrators and proctors in the testing environment will determine if no answers or random answering is taking place.

- o I will focus and put forth effort on the test .

· Being honest and not cheating

- o If I am caught cheating (taking pictures of the test, writing down and passing answers, talking to other students, looking on other computers, using software outside the testing platform), my test may be <u>nullified, resulting in a zero as at</u> <u>least 15% of my semester grade</u>, and any school level disciplinary action as deemed appropriate by the administration.

Important Note: Any form of academic dishonesty, including cheating and plagiarism, may be reported to the office.

Course policies are subject to change. It is the student's responsibility to check for corrections or updates to the syllabus. Any changes will be posted in the classroom.