

Cyber Foundations 2 Syllabus



Course: Cyber Foundations 2

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District Mission:

The Forrest County School District, as a community, will embrace, inspire, challenge, and grow by respecting the worth, value, and full potential of all individuals.

Course Description:

THIS CLASS IS A HIGH SCHOOL CREDIT.

Cyber Foundations II is a foundational computer science course. This program is designed to provide students with essential skills in computer science, digital literacy, and cybersecurity, laying the groundwork for more advanced studies in the IT field. Students will explore topics such as problem-solving, programming, online safety, and the basics of computer hardware and software.

Curriculum Content: Summary of Standards

This course aligns with college and career readiness standards, preparing students for further education in computer science and related fields. It provides a foundational understanding that is essential for certifications in areas such as IT Fundamentals, CompTIA, and others related to cybersecurity and digital literacy.

Instructional Method

Cyber Foundations does not have a textbook. The students will use Canvas, online websites, and keyboarding applications to assist in their learning. At times, I may give handouts with resources and information needed for the lesson and assignment for the day. Lessons will be introduced through journals, bell ringers, discussion, and solo/group activities. This course is heavily centered on student-centered learning, so a good part of the class will be independent work with the teacher monitoring and assisting. This usually takes place during the latter part of the class period. The final grade for this class will be given on the basis of the degree and quality of various assignments that include, but are not limited to, independent class assignments, quizzes, exams, group work, projects, and performance tasks.

Supplies Needed

Single Subject Notebook

Pen/Pencil

Earbuds that are not bluetooth

Learning Outcomes of this Course

By the end of this course, you will be able to do the following:

- Investigate social and ethical issues related to digital citizenship and social media.
- Interact with teachers, peers, and course material using a learning management system.
- Identify leadership and personal development styles.
- Demonstrate knowledge of 21st century skills.
- Explore careers in each of the 16 national career clusters.
- Perform spreadsheet applications.
- Develop fundamental programming constructs to create an interactive game.
- Develop fundamental python syntax programming to create an interactive game, app, etc.
- Examine data to develop an automated survey based on consumer input.
- Read and decode binary and encrypted information.
- Develop fundamental programming applications with a microcontroller.
- Understand, troubleshoot, and develop network layouts.
- The uses of AI in day-to-day activities.
- Understand ethical and unethical considerations in the use of AI.
- Cybersecurity and its applications.
- Setup and configuration of a firewall.
- Ethical considerations in technology in a digital world.

Course Outline-Cyber Foundations II – Course Code: 000286

Unit	Unit Name	Hours
1	Orientation, Digital Citizenship and Keyboarding	10
2	Student Organizations, Leadership, and Career Explorations	2
3	21st Century Tool Box	3
4	Block-Based Programming	10
5	Text-Based Programming	30
6	Networking	10
7	Cybersecurity	15
8	Artificial Intelligence	15
9	Data Science	15
10	Physical Computing	20
11	Ethics	10
Total		140

PLEASE NOTE: This chart is simply a listing of the units to be covered and not necessarily what we will do in order.

Pacing Guide of the Units

1st Nine Weeks: Units 1-4

2nd Nine Weeks: Unit 5

3rd Nine Weeks: Units 6-8

4th Nine Weeks: Units 9-11

Missed Work Due to Incompletion/ Refusal to Work

If a student is present for class and does not turn their work in on time during the allotted time for class then the student will receive a zero for that assignment. Failure to submit work or to press the submit button is not a valid excuse. Submission of blank work will be graded as is. The failure to turn work in is a behavior problem and/or may receive behavior log infractions per incident. The Canvas provides a green check mark on the modules page when something has been submitted and a preview is given of what was submitted on the individual assignment page therefore there are no excuses.

Missed Work Due to Absences

If a student is absent, the deadline for missed work is equal to the number of days missed. It is the student's responsibility to find out what assignments he/she has missed upon returning to school- students can do this during their regular class time with me or by visiting their Canvas Missing Assignments page. Do not leave another classroom or interrupt any class for this information. If a student fails to turn in an assignment in the allotted time, he /she will receive a zero for that assignment.

The FCSD has a second chance policy for students who receive zeroes on assessment.

Missed Work Due to School Sponsored Activities

If a student is absent due to a school sponsored activity their work must be made up upon return and is given the same amount of days to make up the work as the student was absent. The absence is excused, not the work.

Students are required to make a 100% on their Safety Test. Students who can not make a 100 will be given time to study the materials in which they will be retested during their activity time until they can achieve the 100%. This is a state mandated requirement. The original grade is posted in the gradebook online. The required 100 from retaking will be notated in the student's competencies setting that the student met requirements but will not be used to change their grade.

Grading System

A...90-100

B...80-89

C...70-79

D...65-69

F...0-64

NM... No Mark

NG... No Grade (0)

XPE- Exempt Prior to Enrollment

Classroom Norms/Rules

1. Follow PBIS Rules: Be Safe, Be Respectful, Be Prepared, and Be Responsible.
2. Follow the Safety Test Lab Rules
3. Be respectful towards the teacher, substitute teacher, and classmates.
4. Follow directions the first time given.
5. Leave your seat only with permission. and sit in your assigned seat daily.
6. Keep hands, feet, and objects to yourself.
7. Raise your hand before speaking and speak when given permission.
8. **No eating, drinking, or gum chewing in the classroom. If you bring your breakfast to school you can eat it in the cafeteria. This is a lab and state, school, and principal rules state you should not eat or drink in here.**
9. Do not groom (comb/brush your hair or put on make-up) or spray anything in the classroom. If this is a problem principals will be called to confiscate items.
10. The bell doesn't dismiss you, the teacher does.
11. Students are not allowed to use the microwave in the classroom nor are teachers allowed to microwave the food for the students. Please send food that does not need to be microwaved before lunch time.

12. No peripherals are allowed in class.- These will be confiscated and will be held until the end of the year. Parents can retrieve these from the office at the end of the year. Peripherals include but are not limited to bluetooth devices, external mouse, external keyboards, cordless mouse, cordless keyboard, headphones, cameras, etc.) Students are not allowed to attach anything to their computer and must learn to use the computer without these.
13. No listening to music or playing games unless it has been rewarded and in this case earbuds that have a cord will be allowed.
14. Do not interrupt my class to discuss grades or to ask for help on an assignment when you should be in another class. My class time is reserved for teaching the class that is present at that time. Remediation time when allotted or your classtime is the time to receive help.
15. Do not interrupt to borrow items/ equipment from my room. Equipment does not leave my room.
16. I am not the copy room so do not interrupt my class to make copies for you or for other teachers.
17. Do not answer my door unless I tell you to do so and never answer my phone.

Consequences

These steps are in a month's time and start over each month:

1. Verbal Warning
2. First Infraction- Written Warning
3. Second Infraction-parent contact and a day of activity and/or recess detention
4. Third Infraction-parent contact and two days of activity and/or recess detention
5. Fourth Infraction- parent contact and three days of activity and/or recess detention
6. Fifth Infraction- referral/ write-up to the office
7. Any further infractions past the fifth result in automatic referral for each offense
8. Leftover consequences such as assigned detention days can spill over into the next month even though the log starts over on infractions.

Attendance: Grades 7-12

All students attending a Forrest County School must attend a minimum of 168 days out of a total 180 days scheduled in order to be eligible to receive academic credit for the school year.

1. Straight 7-period Schedule
 1. 6 days missed in a semester course
 2. 12 days for year courses

Excessive Absences

A student who exceeds these limits above in any one course for any reason (excused or unexcused) is not granted credit or official academic credit for the course/subject unless all missed work, seat time is made up and the student has a passing grade in the course. Opportunities to make up seat time will be made available throughout the year at the discretion of the principal to include in-school, after school, and Saturday school programs. Students with excessive absences may be given the option of attending the district summer attendance school at the parent/guardians expense in order to receive credit.

Students with excessive absences who participate in extracurricular activities or field trips will not be allowed to participate until seat time due to excessive absences has been made up.

All requirements set forth in this syllabus are in accordance with the FCSD handbook.

First Nine Weeks Grades

Assignment Name	Assignment Type	Percent of the Nine Weeks Grade
Participation Grade	Participation/HW Grade	5% *This grade will update as each assignment is given throughout the nine weeks therefore the grade shown in the gradebook will be subject to change as each is graded
1-1	Daily grade	80%
1-2	Daily Grade	
1-3	Daily Grade	
1-4	Daily Grade	
1-5	Daily Grade	
2-1 / 2-2 / 2-3 / 2-4	Daily Grade	
3-1/ 3-2/ 3-3 /3-4/ 3-5/ 3-6	Daily Grade	
4-1 / 4-2 / 4-3 #1	Daily Grade	
4-1 / 4-2 / 4-3 #2	Daily Grade	
4-1 / 4-2 / 4-3 #3	Daily Grade	
4-1 / 4-2 / 4-3 #4	Daily Grade	
4-1 / 4-2 / 4-3 #5	Daily Grade	
9 Weeks Test	9 Weeks Test	15%
This list may be subject to change in the event of unforeseen circumstances in which class times and or school days/schedules are adjusted.		

Second Nine Weeks Grades

Assignment Name	Assignment Type	Percent of the Nine Weeks Grade
Participation Grade	Participation/HW Grade	5%
5-1 / 5-2 / 5-3 #1	Daily grade	80%
5-1 / 5-2 / 5-3 #2	Daily grade	
5-1 / 5-2 / 5-3 #3	Daily grade	
5-1 / 5-2 / 5-3 #4	Daily grade	
5-1 / 5-2 / 5-3 #5	Daily grade	
5-1 / 5-2 / 5-3 #6	Daily grade	
5-1 / 5-2 / 5-3 #7	Daily grade	
5-1 / 5-2 / 5-3 #8	Daily grade	
5-1 / 5-2 / 5-3 #9	Daily grade	
5-4	Daily Grade	
1-5	Daily Grade	
Bebras National Computing Competition in November	Date TBA	
9 Weeks Test	9 Weeks Test	15%

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Third Nine Weeks Grades

Assignment Name	Assignment Type	Percent of the Nine Weeks Grade
Participation Grade	Participation/HW Grade	5%
6-1 / 6-2 / 6-3	Daily Grade	80%
6-4 / 6-5 / 6-6	Daily Grade	
6-7	Daily Grade	
7-1 / 7-2 / 7-3 / 7-4	Daily Grade	
7-5	Daily Grade	
7-6 / 7-7	Daily Grade	
8-1 / 8-2/ 8-3/ 8-4	Daily Grade	
8-5/ 11-2	Daily Grade	
9 Weeks Test	9 Weeks Test	15%

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Fourth Nine Weeks Grades

Assignment Name	Assignment Type	Percent of the Nine Weeks Grade
Participation Grade	Participation/ HW Grade	5%
9-1 / 9-2 / 9-3	Daily Grade	80%
9-4 / 9-5/ 9-6/ 9-7	Daily Grade	
9-8	Daily Grade	
10-1/ 10-2/ 10-4	Daily Grade	
10-3/ 10-6	Daily Grade	
10-5/ 10-7	Daily Grade	
11-1/ 11-3/ 11-4	Daily Grade	
9 Weeks Test	9 Weeks Test	15%
This list may be subject to change in the event of unforeseen circumstances in which class times and or school days/schedules are adjusted. Sometimes the Lessons in Code.org have extra lessons and will change the name of the actual lesson. This list is based on the previous year's lesson names. We will not know the lesson names until we get to the Code.org programs.		