AP COMPUTER SCIENCE PRINCIPLES 2021-2022



MRS. D. BYRD

ROOM 210A EMAIL: E

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PLANNING: 4th Block

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Техт @ _____ то 81010 то signup

GOOGLE CLASSROOM CODE:

WHAT IS AP COMPUTER SCIENCE PRINCIPLES?

Whether it's 3-D animation, engineering, music, app development, medicine, visual design, robotics, or political analysis, computer science is the engine that powers the technology, productivity, and innovation that drive the world. Computer science experience has become imperative for students' success in the workforce of tomorrow. This course "offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts." In other words, the class is not all programming. We will also discuss the science and ethics behind computer science.

The course culminates in the AP Computer Science Principles Exam. Exam format:

Section I on May 9, 2022, at 12 noon:

70 Multiple-Choice Questions with 4 answer options in 120 minutes for 70% of Score

57 single-select multiple-choice

5 single-select with reading passage about a computing innovation

8 multiple-select multiple-choice: select 2 answers

Section II submitted to College Board by May 2, 2022:

Create Performance Task, 30% of Score

Students will develop a computer program of their choice.

Students will have at least 12 hours of in-class time to complete.

A score of 3 or above on this exam taken in May normally awards 3 semester hours of non-major computer science credit at a college or university.

SMITHS STATION HIGH SCHOOL

- 4228 Lee Road 430 Smiths Station, AL 36877
- Office: 334-664-4060
- Fax: 334-298-1304
- If at any time you would like a conference with me or just need to speak with me, please do not hesitate to call or email.

Remind messages and emails are the fastest ways to contact me and the easiest methods for me to respond to, so please use these methods if you have them available.

- Please make sure that you have read all of the information correctly and ask any questions of things that are not clear.
- When you fill out your information sheet, there will be a place for you to sign that you have read and understood this syllabus.
- Teacher Wish List:

 1 ream of white or color paper
 Kleenex
 Hand Sanitizer
 Disinfecting Wipes

HOW IS THE GRADE DETERMINED IN THIS Class?

You will be required to do a lot of work outside of class. It will not be as time-consuming as most of your other AP classes, but it will be more than your regular classes.

Summative grading is 60% of your grade. This includes tests and more extensive research projects. Formative assessments will be 40% of your grade. This includes "did you read the assignment" and vocabulary quizzes, homework, smaller research projects, and programming.

Why isn't programming summative in a computer science class? Because rarely will a programmer work alone in the real world. Most work as part of teams in a collaborative environment. While the novel coronavirus will not allow us to do group projects and paired programming, I still expect you to talk about your programs with classmates. The process of completing an app is more important than having a completed program in this class.

CLASS SUPPLIES

Bring your Chromebook everyday. I will be utilizing Google Classroom and other web-based programs. Google Classroom is accessible anywhere a student has Internet access. The only other supplies a student needs for this class are a pencil and a small 3-ring binder. I recommend a USB drive as a redundancy storage device for you Create Task.

MAKE-UP WORK POLICY

Your presence in class is crucial. Please remember that learning and improvement is much more difficult if you are not in class. Please do everything possible to be with us every day!

- Make-up work will be accepted for excused absences only. Late work will not be accepted.
- \Rightarrow When a student is absent it is his or her responsibility to get the missed work and to show the attendance excuse to Mrs. Byrd.
- Quizzes missed due to excused absences must be made up as soon as possible, but within one week of the absence.
- ⇒ Tests missed due to excused absences must be made up as soon as possible, but within one week of the original date.
- \Rightarrow Failure to make-up work will result in a grade of a zero.
- ⇒ All make up work must be completed prior to the end of a grading period or arrangements made in advance with Mrs. Byrd.
- ⇒ Students who are absent due to an extended illness will use Google Classroom to access missed work.

Respect yourself and others

Expect the best from yourself and others

Stay on task the entire class period

Praise others when they do well

Evaluate your progress and get help when you need it

Communicate with kindness

Take time to celebrate success

Pespect for ourselves guides our morals; respect for others guides our manners.

L'aurence Sterne

When students have a complaint or difference of opinion about assignments, discipline policies, grades, etc., they should express their feelings to the teacher PRIVATELY and CALMLY after class.

CLASSROOM PROCEDURES

These procedures are designed to help our class run smoothly and efficiently. You have a lot of information to learn and we need to make every minute of our time together count. We always need to be on task.

- 1. Before class make sure you have all necessary materials **before** you come in the room. Submit all assignments by 11:59 PM on due date through Google Classroom.
- 2. Entering class line up outside my door, socially distance to the extent possible, enter **quietly** and orderly when I allow you inside.
- 3. Upon entering Place your cellphone in the charging station and other belongings on or under your desk keep the aisles clear. Only class supplies are allowed on your desk. Prepare for the daily warm up assignment.
- 4. Always head your papers with your first and last name, period, date, and what the specific assignment is (include course name and unit).
- 5. After SYMKC When you finish your warm up, review the previous day's lesson. The warm ups will be passed in at my request in the appropriate manner. Each student will place their own paper in the inbox when their row is called.
- 6. Review time Once warm-ups are passed in, I will take questions from the previous lesson. Raise your hand to ask any questions and <u>wait</u> to be called upon. Do not interrupt another student or the teacher. Ask questions wisely because our time is limited and I will only take about 15-20 minutes for review.
- 7. New lesson We will begin our new lesson promptly at the end of our review time. Always copy down the date, lesson name, and objectives before your notes. Write down anything that I may **write** or anything you hear me **say** that seems significant. Some days we will have special activities to assist in our learning. Please pay attention to all directions. I am not allowed to post some of our material on the internet due to copyright and/or College Board policies.
- 8. Individual work time During our lesson you will be given an opportunity to practice your new skills. This time is crucial to your learning. All persons should attempt to work the new problems and should be quiet this is **individual** work time.
- 9. Partner work time During our lesson, you may be given an opportunity to discuss your answers with a partner. You must **whisper** and **stop** when time is up stay in your seat and socially distance.
- 10. Daily Assignment You will be given an assignment daily. If time permits, at the conclusion of the lesson, you will receive your assignment and you will begin it immediately. If you finish your assignment prior to the end of class, you should review the day's lesson, study new vocabulary, work/play in Snap! or Python sandbox.
- 11. Exit Slip Occasionally, you will answer a few short questions on a slip of paper or online before leaving. They are designed to help you process new concepts, reflect on information learned, and express your thoughts about new information.
- 12. Before the end of class please clean your area and make sure all trash is thrown away when you leave. I will spray your desk with Triad cleaner at the end of each class.
- 13. Dismissal The bell does not dismiss the class, I do. When all trash is off the floor and all materials are returned, I will dismiss the class and you will leave quietly and orderly.
- 14. When I raise my hand at any point during class, students should be quiet. This is especially important when we transition from small groups back to the whole group.

BUT WHAT IF...
PAGE 4

1. I need to go to the restroom/locker/office... **Do not interrupt the lesson**, but privately discuss your emergency with me. You must complete the Google form before leaving my room, as well as, fill in your and take your "I am missing an important learning opportunity card."

- 2. I have a question... All questions are welcome at the appropriate time. Raise your hand and wait quietly for me to respond to you.
- 3. I need to sharpen my pencil... Raise your hand and wait quietly for me to assist. **Do not interrupt** the lesson. It would be wise to have more than one pencil ready at the **beginning** of class.
- 4. I need to throw something away... throw it away when I dismiss class. Do not interrupt the lesson.
- 5. I get sick... In the unlikely event that this happens, you may excuse yourself.
- 6. I was out yesterday... Makeup work is your responsibility.
 - Failure to complete make up work within the allotted time will result in a zero for each assignment.
 - Class notes should be copied from a classmate or from my notebook by request.
 - SYMKC should be made up before or after school.
- 7. I get in trouble... I will either ask you to remain seated at the end of class or ask you to step outside in the hall for a brief conference. Your attitude during our conference will determine your fate.
- 8. There is a school wide emergency:
 - Evacuation Procedures: Upon the signal of the fire alarm (fire bell) and/or an announcement over the intercom system, each class will begin their evacuation. We will exit to the left out the doorway and downstairs to the band practice field. Students will stay together as a class and roll will be taken. The administration will notify everyone when it is safe to reenter the building.
 - Severe Weather Procedures: Upon the signal of the severe weather announcement over the intercom system (if power is out, it will be done by coming to each door), each class will begin their evacuation. We will exit to the left out the doorway and downstairs to the first floor where we will be seated along the edges of the hallway. Students will stay together as a class and roll will be taken. The administration will notify everyone when it is safe to return to the classroom.

SPECIAL ACTIVITIES...

- Quiet Time During an activity, when I raise my hand, it is time for all mouths to be closed and all eyes on me.
- 2. Group activities I will form groups without any arguments. Follow my directions.
- 3. Class presentations When you or someone else is presenting a problem to the class, you must be calm, clear, serious, respectful, and at the conclusion, you should be complimentary. Negative behavior will not be tolerated.
- 4. On test days, there will typically be no warm-up or review. When you finish your test, **raise your hand** and I will come get it. When tests are finished you may complete the next assignment given. There will be no talking, moving, walking, or other activities occurring that may distract any student taking the test.
- 5. Tests and quizzes are **timed** to help you prepare for future classes and high-stakes testing. Extra PRACTICE is the key to helping you prepare.
- 6. Some days I will allow you to use your electronic device but you must stay on task or face disciplinary actions. We may also use other technology which you will be assigned and responsible for during class. Listen carefully to my instructions when using this technology.

I hope this covers the majority of the questions you may have about this class.

I am looking forward to a very productive year.

Dear Parents/Guardians,																						
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(334) 664 - 4060

Room 210A

byrd.debra@lee.k12.al.us

Thank you so much for taking the time to fill this out. I would like all of this information so that I can better communicate with you about your student. This information is for me to be able to tell you great activities in which your student is involved and to let you know if I need your help. Please contact me if any of this information changes, so that we can keep an open line of communication. Also, if you would like for me to be aware of any special circumstances concerning your student, please write on the back of this page or contact me directly.

Welcome!!! Mrs. D. Byrd