

## ADVANCED PLACEMENT COMPUTER SCIENCE PRINCIPLES

SOUTHWEST FLORIDA CHRISTIAN ACADEMY – **COACH KLOSSNER**  
CLASSROOM: **A106**

### CLASS INFORMATION AND GENERAL SYLLABUS (2022-2023)

#### COURSE DESCRIPTION AND OBJECTIVES

AP Computer Science Principles introduces students to the breadth of the field of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They will incorporate abstraction into programs and use data to discover new knowledge. Students will also explain how computing innovations and computing systems, including the Internet, work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. It is important to note that the AP Computer Science Principles course does not have a designated programming language. Teachers have the flexibility to choose a programming language(s) that is most appropriate for their students to use in the classroom.

The AP Computer Science Principles course reflects what computer science teachers, professors, and researchers have indicated are the main goals of an introductory, college-level computer science course:

- Computational Solution Design—Design and evaluate computational solutions for a purpose.
- Algorithms and Program Development—Develop and implement algorithms.
- Abstraction in Program Development—Develop programs that incorporate abstractions.
- Code Analysis—Evaluate and test algorithms and programs.
- Computing Innovations—Investigate computing innovations.
- Responsible Computing—Contribute to an inclusive, safe, collaborative, and ethical computing culture.

Students practice their computer science skills when designing and developing programs that address real world problems and when investigating computing innovations they use or are interested in better understanding.

#### TECHNOLOGY

All high school students are required to have a fully charged, fully functioning laptop in class each day. Cell phones and other tablets are not acceptable devices.

#### STUDENT EXPECTATIONS

- It is expected that every student will conduct himself in an orderly, courteous manner at all times with prompt and respectful obedience to all school personnel, following all adult direction without comment. If a student questions a teacher's decision, he/she should speak to the teacher privately after class. At that time, he/she should respectfully explain the situation and wait for the teacher's response.
- It is expected that every student will respect the feelings and rights of others. This includes students, teachers and visitors.
- It is expected that every student will conduct himself in an honest manner, avoiding such actions as lying, stealing and cheating.
- It is expected that every student will be on time to each class and be prepared with a proper mental attitude and all their necessary materials, books and assigned work.
- It is expected that every student understands that the teacher's desk, computer, and other personal belongings and work area is personal property and will be treated as such.

#### REQUIRED TEXTS AND MATERIALS

Students will utilize code.org online curriculum.

## GRADING

### **Reflects SFCA's grading policy:**

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = 59 and below

## DISCIPLINE PROCEDURES

- ❖ The student will receive a verbal warning.
- ❖ The student will receive a written warning that will be sent home to the parents via FACTS.
- ❖ The teacher will contact the parents by phone or through email and a conference may be requested.
- ❖ The teacher will assign a penalty to the student in the form of a detention, written assignment, or other discipline deemed appropriate.
- ❖ The teacher may refer the student to the Administration if all above actions have been taken.

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This syllabus contains important information specific to this course. It is important for parent and student to read and discuss the information.

We urge you to activate your *FACTS* account online and use it as a resource.

After reading the syllabus, fill out this form and return it to Coach Klossner. The syllabus is to be kept at the front of the class notebook. *Syllabus needs to be signed and returned by August 15, 2022.*

\*\*\*Student Name (PRINT) \_\_\_\_\_

**I have read the course syllabus...**

(Parent Signature) \_\_\_\_\_