



THE FIELD OF COMPUTING
NEEDS DIVERSE MINDS...HOW ABOUT YOU?

Computer science (CS) spans the range from theory through programming to cutting-edge development of computing solutions. Computer science offers a foundation that permits graduates to adapt to new technologies and new ideas. The work of computer scientists falls into three categories: a) designing and building software; b) developing effective ways to solve computing problems, such as storing information in databases, sending data over networks or providing new approaches to security problems; and c) devising new and better ways of using computers and addressing particular challenges in areas such as robotics, computer vision, or digital forensics. Most computer science programs require some mathematical background.

centennial high school
career and technical education

9310 Scott Road
Roswell, GA 30076
678.650.4230 ph
678.650.4250 fax
www.chsknights.com

why tak



what is ap computer science?

AP computer science is a college-level introductory programming course. You'll learn object-oriented programming principles using the Java programming language. With a score of 3 or higher on the exam, you may be able to earn college credit.

TOPICS OF STUDY

- COMPUTER ETHICS
- ALGORITHM DEVELOPMENT AND IMPLEMENTATION
- CONTROL STATEMENTS AND CONDITIONALS
- OBJECTS AND CLASSES
- ARRAYS AND ARRAYLISTS
- SEARCHING AND SORTING
- INHERITANCE/POLYMORPHISM
- RECURSION

COULD I TAKE CS IN COLLEGE?

Yes, and you probably will. Introduction to Programming, or CS1 as it is typically called, is required for many math and science majors, and recommended for others. Obviously, if you are headed to a technical school, a programming class now would give you an advantage in your first year of study.

THEN WHY SHOULD I TAKE IT IN HIGH SCHOOL?

There are several advantages. Here it is a full year course so you'll have more opportunities to ask questions and really understand the concepts than at college where the class meets only a few times per week for one semester. You will enter college ready to apply your skills in your first semester courses. Many students choose to take CS1 again in college and find that they have a huge advantage over their classmates who have not had prior training in computing.

HOW HARD IS APCS?

It's a college course, so the expectations are high. You'll be expected to be programming every day, and not just in the classroom. There is reading and writing involved. But more importantly, you will need to dedicate yourself to spending the time necessary to gain a command of the concepts. In fact, if you think that programming is simply another outlet to play games on the computer, you may be disappointed. Programming is a challenge. It takes a particularly determined mind to struggle with the concepts until "it clicks" for you!



TO
CO
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.



CONTACT MISS GALANOS IN ROOM J02 TO LEARN MORE ABOUT THE EXCITING WORLD OF CS.

galanos@fultonschools.org or www.fultonschools.org/teacher/galanos