

PREPARATION: Successful completion of an Algebra 1 course and Introduction to Programming

This course is designed to prepare students for the Advanced Placement (AP) Computer Science “A” examination and is equivalent to a first-semester college-level course. It is an ambitious course that will expose students to concepts central to modern object oriented programming and computer science including problem solving, design strategies, and analysis of potential solutions. The central focus of this course is on object oriented and modular design, control structures, Boolean logic, input/output, recursive methods, and searching and sorting algorithms. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. All programming assignments are implemented in the Java programming language.