

College Board Computer Science AP A

<p>Mr. Joe Cusack Jcusack1@kleinisd.net Room 502 Klein Collins High School / Computer Science instructor (832) 484-5500 Ext 45246 Mr. Cusack's Web site: www.joecusack.com Course: 4901 / AP COMPUTER SCI</p>	<p>Prerequisite: Proficiency in the knowledge and skills relating to Technology Applications and Algebra 1 Required Course Supplies: Pencils and Paper everyday Major exam test Day: Friday</p>	
<p>Course Description: AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.</p>		
<ul style="list-style-type: none"> ■ Unit 1: Primitive Types ■ Unit 2: Using Objects ■ Unit 3: Boolean Expressions and if Statements ■ Unit 4: Iteration ■ Unit 5: Writing Classes 	<ul style="list-style-type: none"> ■ Unit 6: Array ■ Unit 7: Array List ■ Unit 8: 2D Array ■ Unit 9: Inheritance ■ Unit 10: Recursion 	
<p>Late Work Guidelines -10 points off each day late Active participation and group collaboration Will be evaluated and given a grade. Tutorials: Usually 6:15 am till the start of school every morning.</p>	<p>Re-teach/Re-test Procedure Review material and test corrections, Re-take test within 5 days, Replacement grade may not exceed 70, Re-test policy does not apply to major projects. The Klein Collins HS Grade Repair Policy does not apply to this course</p>	<p>Textbook <i>Blown to Bits: Your Life, Liberty, and Happiness after the Digital Explosion</i> 1st Edition by Hal Abelson (Author), Ken Ledeen (Author), Harry Lewis (Author) – Free online</p>
<p>Online Resources used: Khan Academy https://www.khanacademy.org/ W3School https://www.w3schools.com/ College Board https://account.collegeboard.org/ Amazon Future Engineer- Project STEM https://projectstem.org/users/sign_in</p>	<p>Student Absence Procedures One day to make up work for each day absent Grades: 9-12 .5 Credit Grade replacement: I offer grade replacement for an assignment. If a student competes on my Computer Science UIL team. I will replace a minor or major grade with a 100. Minor grade replacement for any ranking in the contest. Major grades replacement will happen if the student makes a grade of 75 or more on the UIL test (Perfect score 240). No limit to the number of contests you can attend. Replacement grade must be used in the current grading period.</p>	