

# Klein Prep Computer Science 1

<p><b>Mr. Joe Cusack</b> <a href="mailto:Jcusack1@kleinisd.net">Jcusack1@kleinisd.net</a> Room 502 / Klein Collins High School Computer Science instructor / (832) 484-5500 Ext 45246 Mr. Cusack's Web site: <a href="http://www.joecusack.com">www.joecusack.com</a> <b>Course: 4900Q / CMP SCI 1 KP</b></p>	<p><b>Prerequisite:</b> Algebra 1 <b>Required Course Supplies:</b> Pencils and Paper everyday <b>Major exam test Day:</b> Friday</p>	
<p><b>Course Description:</b> <i>Klein Prep Computer Science I</i> will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Computer Science 1 KP covers programming fundamentals, problem-solving, coding language Java, data representation, basic data structures, computational thinking, debugging, and creative projects. Ethical and social considerations in technology will be discussed. <i>Outline: (This course is Klein Prep course. The rigor is higher than CS 1)</i></p> <ul style="list-style-type: none"><li>• Digital Citizenship</li><li>• Computer Math (Binary, Octal, and Hexadecimal)</li><li>• Java (Data types, Classes, Objects, Interfaces, Encapsulation, Inheritance, and Polymorphism)</li><li>• Understanding ethical Computer Science issues</li></ul>		
<p><b>Late Work Guidelines</b> -10 points off each day late Active participation and group collaboration Will be evaluated and given a grade. <b>Tutorials: 6:15 am till the start of school every morning.</b></p>	<p><b>Re-teach/Re-test Procedure</b> 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. <b>The Klein Collins HS Grade Repair Policy does not apply to this course</b></p>	<p><b>Textbook</b> <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><b>Online Resources used:</b> Khan Academy <a href="https://www.khanacademy.org/">https://www.khanacademy.org/</a> W3School <a href="https://www.w3schools.com/">https://www.w3schools.com/</a> Code.org: Learn today, build a brighter tomorrow. <a href="https://code.org/">https://code.org/</a> Amazon Future Engineer- Project STEM program <a href="https://projectstem.org/users/sign_in">https://projectstem.org/users/sign_in</a></p>	<p><b>Student Absence Procedures</b> One day to make up work for each day absent <b>Grades:</b> 9-12 .5 Credit</p> <hr/> <p><b>Grade replacement:</b> 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>	