

# Computer Science Practicum

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| <p><b>Mr. Joe Cusack</b><br/> <a href="mailto:jcusack1@kleinisd.net">Jcusack1@kleinisd.net</a><br/>         Room 502 / Klein Collins High School<br/>         Computer Science instructor / (832) 484-5500 Ext 45246<br/>         Mr. Cusack's Web site: <a href="http://www.joecusack.com">www.joecusack.com</a><br/> <b>Course: 946018 / PRAC COMP SCI</b></p>   | <p><b>Prerequisite:</b> Proficiency in the knowledge and skills relating to Technology Applications and Algebra 1<br/> <b>Required Course Supplies:</b><br/>         Pencils and Paper everyday<br/> <b>Major exam test Day:</b> Friday</p>  |   |
| <p><b>Course Description:</b><br/>         In the <i>Practicum in Information Technology</i>, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.</p> <p>Outline:</p> <ul style="list-style-type: none"> <li>• Career Exploration and Employability</li> <li>• Customer Service and Academic Skills</li> <li>• Research and Project Management in IT Services</li> <li>• Employability Skills and Portfolios</li> <li>• Internship or Unique project build by the student and approved by Mr. Cusack</li> </ul> |  |   |
| <p><b>Late Work Guidelines</b><br/>         -10 points off each day late<br/>         Active participation and group collaboration Will be evaluated and given a grade.<br/> <b>Tutorials:</b> Usually 6:15 am till the start of school every morning.</p>   | <p><b>Re-teach/Re-test Procedure</b><br/>         Review material and test corrections,<br/>         Re-take test within 5 days,<br/>         Replacement grade may not exceed 70, Re-test policy does not apply to major projects.<br/> <b>The Klein Collins HS Grade Repair Policy does not apply to this course</b></p>   | <p><b>Textbook</b><br/> <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)<br/>         – Free online</p> |
| <p><b>Online Resources used:</b><br/>         Khan Academy<br/> <a href="https://www.khanacademy.org/">https://www.khanacademy.org/</a><br/>         W3School<br/> <a href="https://www.w3schools.com/">https://www.w3schools.com/</a><br/>         Code.org: Learn today, build a brighter tomorrow.<br/> <a href="https://code.org/">https://code.org/</a><br/>         Amazon Future Engineer- Project STEM program<br/> <a href="https://projectstem.org/users/sign_in">https://projectstem.org/users/sign_in</a></p>  | <p><b>Student Absence Procedures</b><br/>         One day to make up work for each day absent<br/> <b>Grades:</b> 9-12 .5 Credit</p> <hr/> <p><b>Grade replacement:</b><br/>         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> |   |