Chester County High School

Course Syllabus

Course Code 6095: Information Technology Foundations

Instructor: Mrs. Kimberly Colbert

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Course Resources:

Ear buds (audio)

Notebook: Binder or Electronic

Computers Provided by School

Chester County High School

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<td colspan="2" valign="top" > Course Description

Course Description:

Information Technology Foundations (ITF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Programming and Software Development, and Web Design. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the ITF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue. Standards in this course are aligned with Tennessee State Standards for English Language Arts & Literacy in Technical Subjects and Tennessee State Standards in Mathematics.

* In accordance with the national CSP (Computer Science Principles), it is highly recommended that students meet prerequisites of having completed Algebra I and have strong LA skills before entering this rigorous, entry level course. The course requires a significant amount of expository writing (as well as writing computer code). It is recommended for 10th grade students or above due the expectations of student responsibility and maturity. The course covers a broad range of foundational topics such as programming, big data, digital privacy and security, and societal impacts of computing.

	Course Standard Topics
Goal: ***To provide an environment where students can prepare for work related web design skills for advancement into postsecondary*** **education and industry.**	**<u>Trimester 1</u>** **Safety** **Organization of Materials** **Electronics and Basic Digital Theory** **Career Exploration** **Overview of the Internet** **Overview of Operating Systems** **Terminology and Concepts** **Keyboard Shortcuts** **<u>Trimester 2 or Trimester 3</u>** **Introduction to Logical Thought Process** **Teamwork & Project Management** **Social, Legal, and Ethical Issues** **Programming – Introduction to HTML and CSS** **Client Relations**

	Writing and Editing for Web Publication **Security** **Creating, Analyzing and Designing for Client Based Projects**
Grading Policy:	**Application Projects 50%** **Writing Portfolio Journals (Great Start Article Reads) 20%** **Tests 20%** **Keyboarding 10%**
Attendance Policy:	In order to be successful in this class, students must constantly engage with others, team paring is essential to growth as well as completing assignments and projects. If assignments are turned in late due to an EXCUSED absence, they must be turned in within five days of the absence. Failure to meet the school designated time limit will result in a zero. Assignments missed as a result of an unexcused absence will result in a zero.
Plagiarism/Academic Dishonesty Policy:	o **Plagiarism and academic dishonesty are serious offenses. The academic work of a student is expected to be his/her own effort. Students must give the author (s) credit for any source material used.** o **Students must not copy another student's work electronically and present it as their own. A grade of Zero will be given and will be reported to the administration.**
Writing Component:	**Students will utilize their writing and communication skills daily by completing "Great Start" articles, writing portfolio pieces, open responses, on-demand and responses to "essential questions". Other writing components will be embedded into project designs.** *Participation grades will be taken as student reflections and sharing are a necessary component of gauging learned practices and sharing knowledge that leads to great discussions and "Big Ideas" which are essential to the "discovery concept" that surrounds the exciting field of computer science.
General Classroom Rules:	o Be Prompt o Be Prepared o Be Respectful o Absolutely No Alterations Made to the Computer Settings o Absolutely No Gum Food, Candy or drinks are allowed into the Computer Lab
General Procedures:	o Be on time and in assigned seat when the tardy bell rings o Abide by the Acceptable Use Policy and Media Policy as outlined in the county wide contract
General Consequences:	o Verbal Warning o Teacher/Student Conference o Parent Contact o Office Referral

	Breaching the A.U.P/Media Policy are automatic office referrals as well as severe acts of violent actions.