Principles of Information Technology

Frank Arthurs
farthurs@ems-isd.net

Conference Period: 2nd period
Tutoring Opportunities: During 4th Lunch (except Wednesday) by appointment
Class Materials:
Replace this text with any or all of the following:
- Pen or Pencil
- Canvas

Access to Canvas and Office365 tools is available to students through our Single Sign-on Portal (SSO). Students receive their SSO login during enrollment.

Course Description:
In this course students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will explore a variety of careers in IT, such as Computer Technician, Software Engineer, and Network Administrator. Hands on labs will include building a computer, install Windows and networking computers. In addition, students will learn interpersonal skills to prepare for a rapidly evolving workplace environment.

Course Goals:
Students who complete this course successfully will be able to:
Students will be introduced to IT Essentials which covers topics such as: sub-netting, computer repair safety, computer assembly, GUI commands in Windows and CLI commands in Windows. Cybersecurity is also discussed in detail along with Internet of Things (IoT). The students will also work with wiring and setting up networks.

Student Evaluation:
The grading system for this course is as follows:
- Grade averaged 60% Major 40% Minor
- Major grades – tests (including District Common Assessments, six weeks assessments, projects, final essays, research papers, presentations); minimum three per six weeks
- Minor grades – quizzes, daily assignments, journals; minimum ten per six weeks
- Semester exams will count 1/7 of the semester grade
- A letter system (S, N, U) is used to report a student's conduct based on proper/responsive conduct and citizenship
- Per Board Policy EIA (LOCAL), "The District shall permit a student who meets the criteria detailed in the grading guidelines a reasonable opportunity to redo an assignment or retake a test for which the student received a **failing** grade. This policy applies only to initial identified major grades and does not apply to daily assignments, quizzes, six-week test, and semester final examinations. Upon reteach and retest, the new test, project, etc. recorded will be a high score of 70%.

Assignments, exams, expectations outside of the classroom:
Students are expected to participate in classroom activities. Assignments will be in Canvas and can be accessed from home when needed. Exams and assessments will be used to determine grades in class.

Attendance/Tardy Policy/Make-Up Work:

ABSENCES/ATTENDANCE Regular school attendance is essential for a student to make the most of his or her education–to benefit from teacher-led and school activities, to build each day's learning on the previous day's, and to grow as an individual. Absences from class may result in serious disruption of a student's mastery of the instructional materials; therefore, the student and parent should make every effort to avoid unnecessary absences. Two state laws–one dealing with the required presence of school-aged children in school, e.g., compulsory attendance, the other with how a student's attendance affects the award of a student's final grade or course credit–are of special interest to students and parents.

Tardies: Students are expected to be in class on time. Coming into class after the bell will be considered tardy unless the student has a note excusing the tardy.

Classroom Expectations:

The students are expected to follow all rules and procedures posted inside of the classroom. Failure to follow these can result in disciplinary actions.

Preliminary Schedule of Topics, Readings, and Assignments

Semester 1: IT Essentials – Sub-netting, Computer Lab/repair safety guidelines, Computer assembly and recognition, GUI/CLI commands

Semester 2: Internet of Things, Cybersecurity, Wiring and network setups

Academic Integrity:

Academic integrity values the work of individuals regardless if it is another student's work, a researcher, or author. The pursuit of learning requires each student to be responsible for his or her academic work. Academic dishonesty is not tolerated in our schools. Academic dishonesty, includes cheating, copying the work of another student, plagiarism, and unauthorized communication between students during an examination. The determination that a student has engaged in academic dishonesty shall be based on the judgment of the classroom teacher or other supervising professional employee and considers written materials, observation, or information from students. Students found to have engaged in academic dishonesty shall be subject to disciplinary and/or academic penalties. The teacher and campus administrator shall jointly determine such action.