

Computer Programming Dayton Regional STEM School, Room 360, 2023-2024

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Objectives: Students will learn the fundamentals of writing computer programs, including prerequisite information technology, digital representation, web encoding, algorithmic thinking, object oriented design, and software engineering processes. Students will gain experience through tasks and projects using various markup and coding languages including HTML, CSS, SVG, Javascript, and Java.

Materials: Students will be expected to bring their laptop and something to write with in class each day. The instructor will provide other materials in the classroom, where they will remain. Class related documents, study guides, artifacts, and screencast videos will be available on the web site <http://whyegg.org/math/>

Grading: Grades will be determined by a combination of classwork, readings, projects, notebook checks, and tests that will occur throughout the course.

- **Classwork (20%):** Students will practice skills with work in class. Any work assigned and completed during class will be part of this grade, and may include tutorial progress, problem worksheets, participation in activities, topic presentations, and expository responses. Students can improve their grade on written assignments by making corrections and resubmitting them.

- **Tests (30%):** Students will be tested on the knowledge and skills taught and practiced in class. Tests will be given at the end of each grading period. Tests are graded for accuracy and cannot be corrected.

- **Readings (20%):** Students will be assigned regular reading assignments to complete. For each reading, students will need to write a summary sentence, propose a thoughtful question, and identify at least one least familiar word from the reading. For each term, any reading assignments must be submitted at least one week before the term ends to receive a grade.

- **Projects (20%):** Students will be responsible for producing a final development project for each term that applies the technologies and techniques learned. The deliverables can include software code and documentation. The instructor will evaluate results for completeness and creative accomplishment.

- **Notebook Checks (10%):** Students will be required to take notes on material presented in class in a physical or virtual notebook. The instructor will indicate when he is covering topics that should be reflected in the student notes, and may provide screencasts online for important material. The instructor will collect the notes and periodically check them for completeness. Students should use their notes to study for tests.

Behavior: Students will meet standards of behavior as described below to support a safe and productive learning environment for every participant in the classroom. Failure to meet behavior standards can result in verbal warnings, communication with parents, loss of credit in classwork, detention after school, and/or referral to the school administration for discipline.

- **Mutual Respect:** The instructor will respect the students at all times, and in return the students must respect the instructor, classroom guests, and other students at all times. Verbal abuse, discriminatory language, making threats, and blatant disobedience of school or classroom directive is unacceptable.

- **Disruption:** It is important that all students receive an opportunity for education. The students must not interrupt the instructor during lecture or while giving instructions. Talking or making noise while the instructor is addressing the class is unacceptable.

- **Leaving the Classroom:** The instructor is responsible for each student scheduled in a class period. The departure of any student from the classroom during the period without instructor knowledge and permission is unacceptable.

- **Wandering:** Students may occasionally need to leave their seats to collect or prepare materials, but multiple students roaming the classroom creates too much disorder and distraction. Any student's inability to remain in his/her assigned seat during the period for purposes that do not support educational goals and without permission from the instructor is unacceptable.

- **Unwanted Physical Contact:** Everyone should feel safe in the classroom. Fighting, bullying, or any unwelcome touching of students or staff is unacceptable.

- **Classroom Material Use:** Resources such as books, calculators, and utensils used in instruction, as well as the school facilities themselves are community resources paid for with public funds. The intentional vandalism or destruction of classroom materials or school property is unacceptable.

- **Computer Use:** Access to the Internet provides many benefits but necessarily includes opportunities to view, download, or engage in content that is not school appropriate. Any use of school computers for connection to sites that are unrelated to the educational goals of the classroom is unacceptable.

- **Personal Electronic Devices:** Smartphones can be used for designated classroom activities, calculator applications, and listening to music *during individual classwork*, but unrelated uses can be an enormous distraction for a student and his/her neighbors. Texting, answering calls, or using a personal device for anything that does not support educational goals during classwork or instruction is unacceptable.

- **Cheating:** Each student must be fairly assessed against the standards of the curriculum. Copying the work of other students, cheating on tests, or otherwise intentionally distorting assessments and therefore grades is unacceptable.

Philosophy: Every student has the ability to learn and the right to an education. I can deliver the curriculum to any student that is willing to make the required effort to receive it. In a safe and cooperative classroom, together we can meet each student's full potential in achieving academic excellence.

I look forward to a successful year. Please sign below and return this form to the instructor for credit.

Student's Name: _____ Date: _____

Student's Signature: _____

Parent/Guardian's Name: _____ Date: _____

Parent/Guardian's Signature: _____