**Computer Technology II – Advanced Computer Applications**

Mr. Sweeney, Teacher

Room 121 – Computer Lab

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**Course Description**

*With their knowledge of basic computer functions achieved in Computer I, students will build upon their understanding of internet research, collaboration, computer programming, photo editing, online applications and platforms. Students will explore, create and evaluate the subjects of computer technology and internet usage. As well as apply new skills to create a technology portfolio with which to assess and promote their own academic advancement.*

“*What prompts us to action is desire; and desire has three forms--appetite, passion, wish.”*  
 -Aristotle. *Magna Moralia.*

**Objectives**

Students will apply digital tools to gather, evaluate, and use information. (ITSE 3a, 3b, 3c, 3d)

Students will demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. (ITSE 1a, 1b, 1c, 1d)

Students will use digital media and environments to communicate and work collaboratively. (ITSE 2a, 2b, 2c, 2d)

Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. (ITSE 4a, 4b, 4c, 4d)

Students understand human, cultural, and societal issues related to technology and practice legal and ethical behavior. (ITSE 5a, 5b,5c,5d)

Students demonstrate a sound understanding of technology concepts, systems, and operations. (ITSE 6a,6b,6c,6d)[***International Society for Technology in Education***](http://www.iste.org/docs/pdfs/20-14_ISTE_Standards-S_PDF.pdf)

**Areas of concentration Concepts/Applications**

**Critical thinking, problem solving** Programming, Scratch

**Communication and collaboration** Blogs, Discussion Forums, Wikis

**Basic programming** Scratch, Excel

**Web Based Portfolio** Blogs, Cloud storage and sharing

**Research and information fluency** Research, Technology papers

**Creativity and innovation**  Presentation Apps, Programming

**Advanced computer applications** Scratch, Sketch up, Gimp/Photoshop

Alice, Dreamweaver, Sketch up, Scratch

Blog based exercises

**Portfolio creation** Culmination of semesters work supported by artifacts.

**Grades**

Tests/quizzes/class assignments/projects

Letter grades for the course are based on the guidelines outlined below.

Weights

Completion of daily assignments 30%

Completion of required projects 25%

Completion of Tests/Quizzes 25%

Portfolio 20%

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| --- | --- | --- | --- | --- |
| **Scale** | | | | |
| **A= 90 -- 100%** | **B = 80 – 90%** | **C = 70 – 79%** | **D = 60 – 69%** | **F = 59% or below** |

**Assignments**

All assignments will be submitted on the due date. No late work is accepted without contacting your teacher first. All projects, class assignments and test scores will be posted in Progress Book.

Daily Assignments

Step by step instruction, lecture, online applications and discussion.

Tests/Quizzes

Concepts and vocabulary

Unit assessments

Portfolio *(20% of overall grade)*

The portfolio is a method of assessing and promoting a students’ progress in an area of study. This project allows a student to work long-term, utilizing learned systems to promote mastery and advancement. It is also an excellent chance to track development and spurn further scholarship. This long term project is in lieu of a final exam and carries as much weight as a final.

**Rules**

***Adherence to school rules and dress code as stated in the student handbook is expected.***

No food/drink in computer lab

Respect others –no rude/distractive behavior

Computer maintenance – respect the hardware and the room

Tardy 3 times – After school my room.

Phones away (*I love technology but distractions come in many forms)*

Additional rules and expectations will be discussed in the first week of class.

Students Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_