

## Introduction

This course is designed to be an introduction to the world of computing science. The topic of computer science has many branches with the three major ones of IT Support, Software Development, and Hardware Design. In this class we will cover the basics for all 3 of these subjects. Each subject will have a project at the end to really show your learning.

## Topic Outline

- Best Practices for Software Applications (Word and PowerPoint)
- Computer Hardware (Building a computer from sourced parts)
- Programming (Writing simple and basic programs to solve tasks)
- Computer Networking (Understanding network connection, security and social implications)

## Equipment

You'll need the following materials as a minimum to be successful in this course

1. A method to keep written notes (binder and paper)
2. Writing instruments (pen or pencil)
3. USB Flash drive (or access to online storage)

Additionally, you are welcomed to bring your own personal laptop to work on during class. Using a tool that you are familiar with is always the best way to learn. If you do choose this option, you'll need to have installed the following programs

1. Microsoft Word
2. Microsoft PowerPoint
3. Python programming language

## Assessment and Grading

Weight	Category	Details
10%	Homework	Homework will be check at the beginning of class. These are really to help you practice and review your learning.
10%	In-Class Group Work	Quizzes and homework that
10%	Application Project	A project that will have you modify a Word and PowerPoint document.
15%	Computer Build Project	A project that will have you build computers to specifications.
15%	Programming Project	A project that will have you program a classic game in text format.
20%	Midterm	An exam during the middle of the term
20%	Final	Semi-cumulative exam at end of term.

## Classroom Policies

### Leaving the Classroom

Please ask first! I need to know where everyone is in case of emergency. Additionally, during class there may be important concepts that I am covering and leaving will have a negative effect on your studies; during those times I will let you leave later as I finish the concept. If it becomes known that you left the school or didn't follow the spirit for leaving the class, you will lose classroom exiting privileges.

### Work Expectations

We will be working till the end of each class. Achieving mastery in any area of study is a practice intensive process, and so we will be using the time after instructional time to practice, sometimes working as a group to better our abilities.

### Missing Class

It is best to not miss class; however, life does sometimes get in the way of school. In those cases, it is your responsibility to determine the material you've missed and get caught up. I will not have the time to find you individually to provide the missing material. Good opportunities to come see me are during the X-Block on Wednesday or after school between 3:45 to 4:15.

### Lateness

My classes tend to be information and practice heavy, which means time is an essential part of my lessons. Additionally, I could have quizzes at the beginning of class that will affect the in-class group work or homework category for the final grade. If you are late, please be sure to obtain a late slip from the front desk before coming to class. If you are frequently late, we will be having a conversation on class commitments.

### Late Assignments and Homework

I will not accept late homework. Homework questions will be assigned regularly and are expected to be completed before the start of class. I will be going over questions people had difficulty with, effectively giving the answers.

Assignments (and Projects) have a 10% off per day policy. For every day that there is class, the work submitted late will lose an additional 10% from the total.

### Academic Integrity

I take academic dishonesty very seriously. Please **DO NOT** submit work that is not your own!! Should I find evidence of plagiarism, all relevant parties will be approached, and the consequences determined on a case-by-case basis, with the possibility of principal being involved.

### My Advice

Becoming good at Information Technology takes a significant amount practice and reading. There are many branches in this science and takes several years to specialize. Daily practice and consistent work habits are needed to achieve a high grade.