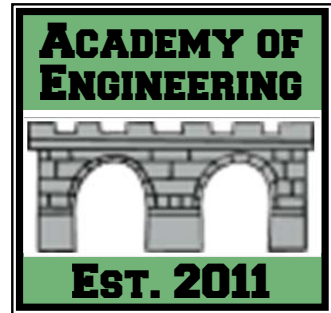


# Computer Hardware

1 Week

COMP 101

12.5 Hrs



**MODULE:** 1

**CREDIT AREA:** Computer Science

**COURSE OUTCOME:** Students develop an understanding of what is inside a computer. Most importantly, student will develop an understanding that a computer is just a machine made up of components.

**COURSE DESCRIPTION:** This course is the first module in the Computer Science credit area. This is a basic entry-level computer hardware class that focuses on learning the major components of laptops and desktops. The course includes the dismantling and reassembly of both a laptop and a desktop PC. The purpose of the course is to raise student awareness of what is inside a computer and that it is just a machine. The course concludes with a hardware components test.

**PREREQUISITES:** NONE

## **COURSE OUTLINE:**

Section	Instructor	Subject	Project
1	Bren	Desktop - Disassembly and Reassembly	NA
2	Bren	Laptop - Disassembly and Reassembly	NA
3	Bren	Input, Output, and Storage Devices	NA
4	Bren	Building the Most Expensive Laptop Online	NA
5	Bren	CPU, GPU, RAM, and Hard Drive Speeds	Hardware Quiz (10 Points)

## **STUDENT PERFORMANCE OBJECTIVES:**

1. Recognize input, output, and storage devices.
2. Understand how CPU, GPU, RAM, and Hard Drive speeds affect the overall speed of a computer.
3. Recognize major manufactures of computers and processors.
4. Recognize hardware architecture numbers.

## **METHODS OF INSTRUCTION:**

1. Lecture
2. Handouts
3. Individual guidance
4. Demonstrations

## **STUDENT ASSIGNMENT REQUIREMENTS:**

1. Weekly Attendance Character
2. (1) Hardware Quiz

## **EVALUATION AND GRADING STANDARDS:**

The hardware quiz is worth (10) points. Attendance is worth (1 point/day). The total points for this module is 15 points. The points from this module will be added to the total for the Computer Science Credit course to determine a final grade.

## **REQUIRED STUDENT SUPPLIES AND MATERIALS:**

1. (3) Ring Binder
2. Notebook Paper & Writing Utensil
3. Handouts

## **ADDITIONAL INSTRUCTIONAL RESOURCES:**

1. Internet Research
2. Lecture Power Point