

# CS118 Exam 1 Preparation

[This is not all-inclusive!]

## Vocabulary

### Hardware

CPU, system unit, memory, RAM, hard drive, bus, transistor, bit, byte, kilobyte, megabyte, gigabyte, terabyte, hardware, volatile memory

### Software

OS, application, interpreter, compiler, input, output, user, programmer

### Programming

variable, data types, int, float, string, print, format string, placeholder, format modifier, width modifier, precision modifier, left-justification modifier, program, script, shell, terminal, module, library, API, escape sequence, newline character, tab character, function, library function, built-in function

## Concepts

Basic functioning of computer

Number systems

Base conversion

OS: tree structure of directory system

Sequential processing

Variables

    Defining

    Referencing (using)

User input

User output

Formatted output, use of placeholders, format modifiers, and escape sequences

Data types

Type casting / conversion

Variable names vs. strings

Random numbers (floats and integers), normalization

## Skills

Base conversion

Algorithm development

Python programming

    Sequential processing

    Input

    Output

    Simple math operators

    Importation of modules

    Use of built-in functions

    Use of module functions and constants

Use of new functions