# CPSC 1301, Computer Science I Homework 01

## Chapter 1 and 2, *Learning Python*

## Readings

Read chapters 1 and 2 in the *Learning Python* book (41 pages).

## Discussion Questions

Answer the discussion questions in writing.

1. List three different elements of what the book describes as the *Python philosophy.*

2. Why might some Python procedures run at "C speed?"

3. List five well known users of Python.

4. List five broad categories of practical Python uses.

5. What computer language is the standard implementation of Python written in?

6. In its simplest form, what does a Python program consist of?

7. What is *source code*? What is *byte code*?

8. Some of your files will end with a `.pyc` extension. What do these files contain?

9. What is the *Python virtual machine*?

10. What is *CPython*?

11. The book discusses "true executables" and *frozen binaries.* What does this mean? How is this different from interpreted Python?

12. (Not in book) What do each of the following shell commands do?
    - `copy/cp`
    - `move/mv`
    - `dir/ls`
    - `del/rm`
    - `mkdir`
    - `cd`
    - `cd ..`
    - `rmdir`
    - `help/man`
    - `tree/ls -r`
    - `exit`
    - `>` (output redirection operator)