

COMP 141

CS1: Programming Fundamentals



1

Announcements

Reminder

- Program 9 due Monday, December 9th by 11:55pm.

Final Exam

- Friday, December 6th
- 1:00-3:30pm
- Briggs 019
- You will be given the same lists & strings functions handout as Midterm 2
- Review packet on Course Website (solutions on Moodle)

2

List of Topics to Review

- Functions
- Local vs. Global Variables
- If/Else Statements
- For Loops
- While Loops
- Nested Loops
- Reading/Writing to/from Files
- Strings
- Lists
- 2-D Lists
- Simple Graphics package
- Binary Numbers

3

Course Objectives:

- At the end of this course, you should be able to:
- create algorithms to solve simple computational problems;
 - use the Python programming language to implement, test, and debug algorithms for solving simple problems;
 - apply the techniques of abstraction and decomposition to break a problem into smaller, easily-understandable pieces;
 - understand and modify algorithms and programs written by someone else; and
 - apply consistent documentation and style standards to the programs you write.

Course Topics: (not necessarily in this order)

- Program design
- Testing and debugging
- Data types, variables, expressions, and statements
- Control flow structures (if, while)
- Functions, problem decomposition, and abstraction
- One- and two-dimensional lists
- String manipulation
- File reading and writing