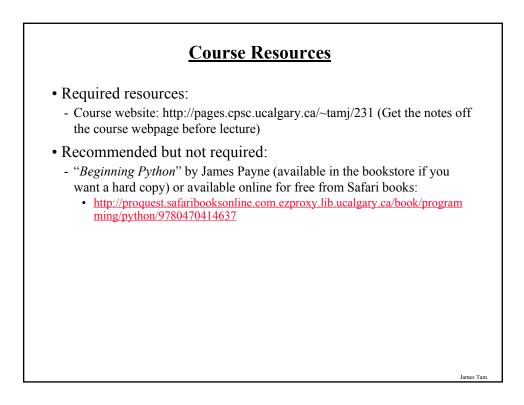
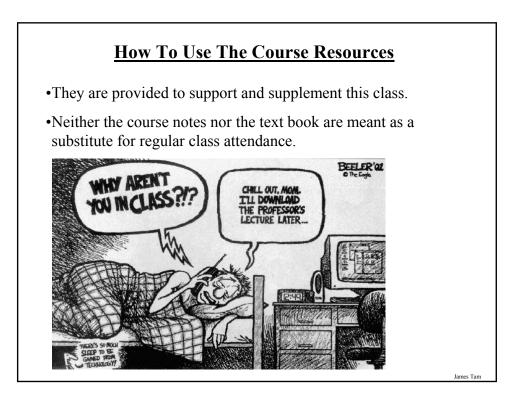
# **Introduction To CPSC 231**

## **James Tam**

James Tan

#### **Administrative (James Tam)** Contact Information - Office: ICT 707 🔀 - Email: tamj@cpsc.ucalgary.ca • Office hours - Office hours: Tuesday (11 - 11:50 AM), Thursday (3:30 -4:20 PM)...after the morning class (first lecture of the day) the first lecture of the week, after the afternoon class (second lecture of the day) for the second lecture of the week. - If I'm not in my office give me a few minutes or check the lecture room. - Email: (any time) - Appointment: email, phone or call - Drop by for urgent requests (but no guarantee that I will be in if it's outside of my office hours!) My Office James Tam

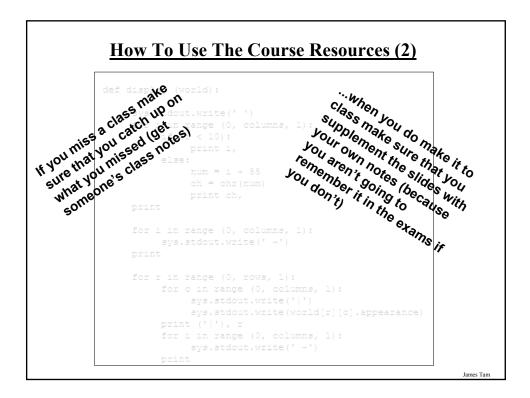


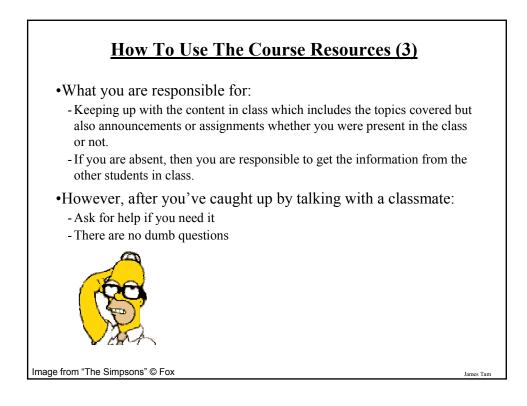


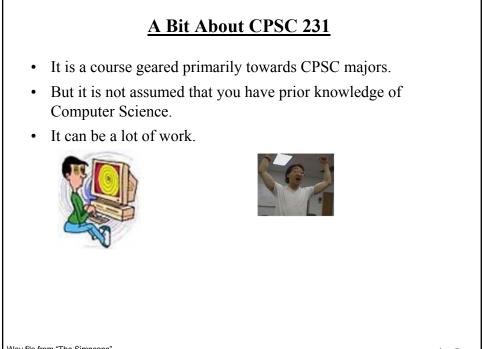
#### How To Use The Course Resources (2)

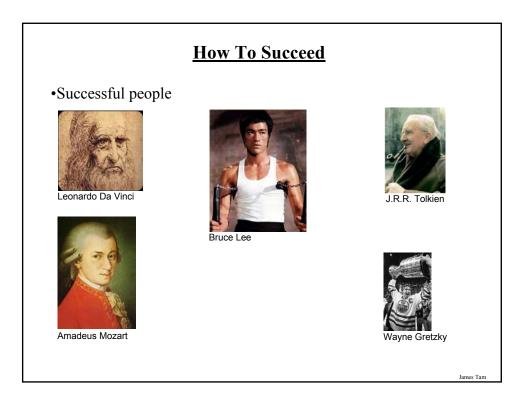
```
def display (world):
sys.stdout.write(' ')
 for i in range (0, columns, 1):
     if (i < 10):
          print i,
     else:
          num = i + 55
          ch = chr(num)
          print ch,
print
for i in range (0, columns, 1):
     sys.stdout.write(' -')
print
for r in range (0, rows, 1):
     for c in range (0, columns, 1):
          sys.stdout.write('|')
          sys.stdout.write(world[r][c].appearance)
     print ('|'), r
     for i in range (0, columns, 1):
          sys.stdout.write(' -')
     print
```

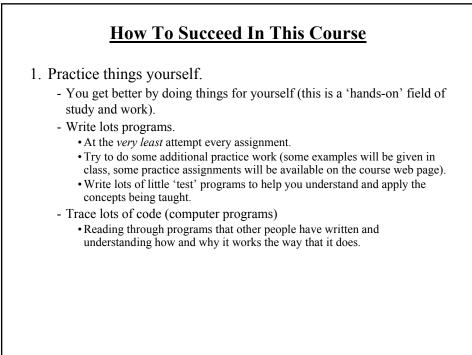
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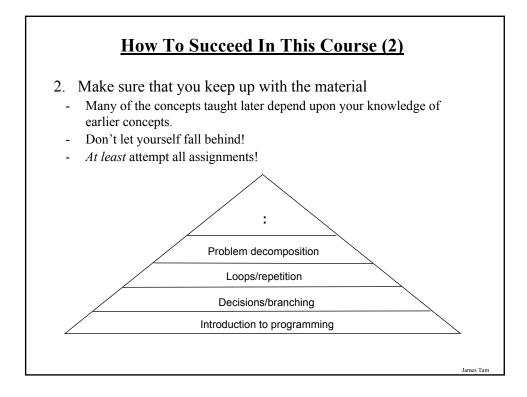












#### How To Succeed In This Course (3)

- 3. Look at the material before coming to lecture so you have a rough idea of what I will be talking about that day:
  - a) Read the slides
  - b) Look through the textbooks

James Tam

#### How To Succeed In This Course (4)

- 4. Start working on things as early as possible:
  - Don't cram the material just before the exam, instead you should be studying the concepts as you learn them throughout the term.
  - It's important to work through and understand concepts \*before\* you start assignments. If you try to learn a new concept and work out a solution for the assignment at the same time then you may become overwhelmed.
  - Don't start assignments the night (or day!) that they are due, they may take more time than you first thought so start as soon as possible.

#### How To Succeed In This Course: A Summary

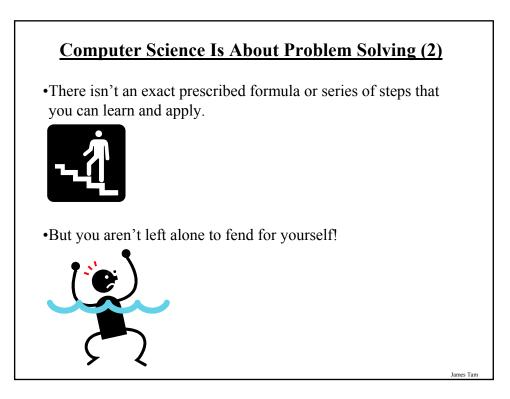
- 1. Practice things yourself
- 2. Make sure that you keep up with the material
- 3. Look at the material before coming to lecture
- 4. Start working on things early

James Tam

### **Computer Science Is About Problem Solving**

- •A simplified description of what this means: Write a computer program that performs a task (fulfilling a need and thus solving a problem).
- •This requires that you know how to write a program in a given language but goes beyond knowing the rules and structure of a language (knowing this extra bit is the problem solving aspect).
- •For example you may know how to get a program to rerun itself (loop) but you may not know how to loops are applied to a given a problem.
- •You get better at problem solving through practice ("How to succeed in this course").
  - This is why lectures won't directly address the solution to an assignment.





### **Computer Science Is About Problem Solving (3)**

•You will be taught:

- Computer programming: The mechanics of how different programming concepts work e.g., file input and output, displaying text and graphics onscreen.
- Problem solving strategies: approaches to creating a problem to a challenging solution:
  - Practice! Practice! Practice!
  - Example strategy: Problem decomposition.
  - Example strategy: Visualization techniques.
  - Good programming style.

