

# CMPT 120

## Intro to CS & Programming I

*Before we begin...*

**Instructor:** Jérémie Lumbroso

**TAs:** Bhavesh Gupta, Dan Lin, Zhensong Qian

<http://www.sfu.ca/~jlumbros/Courses/CMPT120/>

*SFU, Burnaby campus — Spring 2014*

# Contact

Best way (for course questions):

`cmpt-120-help@sfu.ca`

Or else:

- **Instructor:** Jérémie Lumbroso <jeremie.lumbroso@sfu.ca>
- **TAs:**
  - Bhavesh Gupta <bgupta@sfu.ca>,
  - Dan Lin <lindanl@sfu.ca>,
  - Zhensong Qian <zqian@sfu.ca>.

Remarks:

- Always include CMPT 120 at the beginning of your subject line.
- Office hours to be determined later.

# Main Class Topics



## Intro to Computer Science ...

- give you an appreciation that computers are not just about Internet, YouTube (cat videos), Word, Excel and games!
- give you an understanding of how computers work

## ... & Programming

- programming? what can it do? what can it help **you** do?
- what is Python? how to program in Python?
- what are algorithms and how can they help problem solve?
- what are variables, functions, control structures?
- what are data structures, input types, etc.?

# Useful Textbooks

## For complete beginners:

- *CMPT 120 Study Guide* by Greg Baker  
<http://www.cs.sfu.ca/CourseCentral/120/ggbaker/guide/>
- *Think Python: How to Think Like a Computer Scientist* by Allen B. Downey  
<http://www.greenteapress.com/thinkpython/>

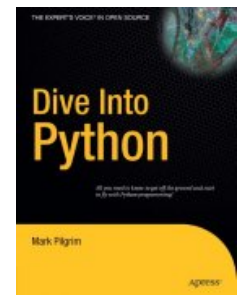


## If you are at ease with your computers:

- *Learning Python The Hard Way* by Zed A. Shaw  
<http://learnpythonthehardway.org/>

## If you have a good familiarity with programming:

- *Dive Into Python* by Mark Pilgrim [also in Italian, French, Spanish, Chinese, Korean]  
<http://www.diveintopython.net/>



# Course Grading

- 65% supervised points
  - Quiz I (Feb. 5) and Quiz II (Mar. 5) ~ 10%
  - Midterm (Mar. 21) ~ 15%
  - Final exam (Apr. 14) ~ 40%
- 40% unsupervised points
  - Labs and course active participation ~ 8.5%
  - Assignments and projects ~ 23%
  - Bonus points ~ 2%
  - AEP (Academic Enhancement Program) ~ 1.5%

Note 1: subsection weight is approximate and subject to change.

Note 2: any eventual change will be to the benefit of students.

# Philosophy and Aim

- Teaching style
  - passionate about this stuff!
  - give students many opportunities to do well
  - encourage participation
  - always respect students and consider them as adults
- BigGoals®
  - you will have an idea of what is “Computer Science”
  - give you basic programming skills useful in today’s life

# Academic Honesty Policy

- Official SFU policy

<http://www.sfu.ca/policies/gazette/student/s10-01.html>




- Cheating = **loss of time** (yours, ours) and **money** (yours)
  - Cooperation allowed on all non-supervised assignments: just make submission copy and specify names of all participants
  - Don't copy: just tell us whose grade you want (with their agreement)!



**PLEASE LET'S NOT WASTE OUR TIME!**

- Goal of course is to **learn programming** (an increasingly **essential skill**, in all situations not just CompSci), not to get good grade

# Some Symbols

-  = student participation (iClickers, reflexion...)
-  = expand general knowledge (not test stuff!)
-  = difficult topic



# iClickers



- Register your iClicker
  - go to [www.iclicker.com](http://www.iclicker.com)
  - enter last name, first name, student ID (beginning of email, **not** student number, i.e., mine is j lumbros) then click “Submit”
- How will the iClicker be used
  - to solicit feedback (too slow? too fast? another example?)
  - to ask questions on the course
  - to determine attendance record
- iClicker votes will count towards “course participation” (**but not during this first week!**)

# Class Demography

What is your major?



- A** Computer Science
- B** Math or Statistics
- C** Physics or Chemistry
- D** Business or Engineering
- E** Other

# Class Demography

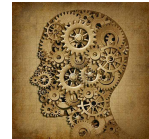
What is your computer background?



- A** I know how to turn a computer on
- B** I mainly browse Internet and use a word processor (Word, ...)
- C** I am very familiar with my computer but no programming
- D** I can program a bit, or have done so in the past
- E** I am pretty good at programming

# Class Demography

What best describes your expectations?



- A** I am here to get credits / because it's required
- B** I want to try out programming, it may be my future career
- C** I want to program professionally – I intend it to be my career
- D** Not B or C, but I think programming can be useful for me
- E** I keep hearing about “coding” and I am curious about the hype

# Paper Survey



And because not everybody has an iClicker today, and multiple choice can only say so much, **please take some paper and answer the following questions:**

- Why did you choose this course?
- What is your experience with computers?
- What are you expecting from this course?
- Who do you think is responsible for your learning, and why?
- How would you describe programming?
- Favorite TV show?

Then **if you want to**, write name and email, bring the paper over and you may leave.

**See you on Wednesday!**