Data Structures and Algorithms CSCI 2270

Christopher Godley

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Lecture 1 (Hoenigman)

Today…

- 2270 details
  - Grading
  - Textbook
  - Recitations
  - Computer Science Moodle
  - A little bit about me, and computer science

What is Data Structures and Algorithms?

Back to Intro Programming…

- Most of you are coming from CSCI1300, 1320

- Reasons for enrolling in CSCI1300
  - Intentional interest
  - Required for another major
  - Your mom made you do it
  - You got lost on your way to English 100
  - Accidental

  If you are here, presumably you enjoy programming and want to know more.

Administrative details

Undergrad Course Assistants (CA):

Full schedule on Moodle – times and locations

My Office hours:

Tuesday, Wednesday 1:00-3:00pm (know which is yours!)

Office hour information is also in the syllabus.

Administrative Details

Course materials on Computer Science Moodle

> http://moodle.cs.colorado.edu/

> Enrollment key: emailed later today

> Login with your identikey and password

Class times:

> Mon-Thurs, 9:15-10:35am. ECES 114

Recitation:

> Friday, same time as lecture.

> Recitation activity. Ask questions about assignments and get extra help.

Programming pre-requisite for CSCI 2270

- You should be proficient in a programming language, preferably C++

- Learning a new language is part of computer science

- Resources for learning C++
  - Lecture notes from CSCI1300, posted on Moodle
  - On-line C++ textbook
  - Bucky's C++ video tutorials, posted on Moodle

Course resources

- Required ebook: Visualizing Data Structures, Hoenigman, 2015.
  - Available on Moodle for free, or Amazon, Google, iTunes for about $10.

Lecture format

- Bring your laptop to class everyday

- Bring paper and pencil, or some way of taking notes, to class everyday

- Class is theory and implementation
  - Pseudo-code for algorithms
  - Implement algorithms in lecture

Recitation this week

- Get prepared for the semester: Sublime, Moodle, C++
- If you used the Virtual Machine in previous semester, you're welcome to continue with it.
- Please read the syllabus.
- Create an account on the Moodle
- **Programming exercise**:
  - Write a C++ function to determine if a number is prime.