

CS100: INTRODUCTION TO COMPUTER SCIENCE

LUBY LIAO

SPRING 2012

## 1. Course Description

This course teaches the most important and useful non-trivial computer literacy. It teaches real life problem solving using the technology behind the Internet, software tools, and automation through programming. Topics include creating and maintaining a useful website, extensible browser, collaboration software, spreadsheet design and programming. Anybody from computer novice to experienced user can benefit from this course, for life. Prior computer experience is not required. All classes are hands-on.

## 2. Learning Outcome

Upon successful completion of this course, students will be able to:

- Use their computers optimally. Examples:
  - Use multiple browsers simultaneously
  - Prefer keyboard shortcuts to mouse
  - Look for opportunities to automate
  - Collaborate
  - Publish
- Use apps effectively. Examples:
  - Configure apps properly
  - Email: use skins and filters
  - Browsers: use extensions
  - Publish to the web using blogs, Google documents, Google forms and Google sites.
  - Spreadsheet: use formulas
- Understand PC, networking and client-server technology. They will
  - Open PCs. Touch and play with components. Understand what it means to build a computer.
  - Network with PCs, printers, devices such as smartphones, and servers.
  - Troubleshoot network problems.
  - Access computers remotely.
- Program in Python

## 3. Classrooms, Office, Web Site etc

### Classrooms

S155 most of the time  
S134 and S156 A/B labs sometimes

**Office** S146

### Office Hours

10 to 12 MWF, and by appointment.

**Phone**      619-260-4021(o)

**Class Web Site**

<http://home.sandiego.edu/~liao> or <http://zen.sandiego.edu> directly

**e-mail**      liao

#### **4. Grading System**

Your grade consists of 4 components:

1. **15%** Notes, Quizzes, and Short homework problems due in a day or two
2. **30%** More substantial homework assignments
3. **25%** Two tests
4. **30%** Comprehensive Final

#### **5. Final**

- Mon, May 21, 8 to 10