

# 15110: Principles of Computing

## Course Overview

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## Students From Different Majors

- Fine Arts
- Basic Sciences
- Engineering
- Psychology
- Business
- Modern Languages
- Others ...

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## Why Are You Here?

- Curiosity: find out about computing technology and its many effects on society.
- Professional development: computing skills can make you more successful at work.
- Academic requirement: a computing course is required for your major. Why?
- Intellectual growth: you can learn **to think like a computer scientist**

## Computational Thinking

- Computer science is the study of what can be computed and how to compute it
- When you think like a computer science you will be able to
  - Understand what aspects of a problem are amenable to computation
  - Apply computational strategies such divide and conquer in any domain
  - Recognize an opportunity to use computation in a new domain
  - Ask new questions that were not thought of or dared to ask because of scale, easily addressed computationally
  - Understand the limitations and power of computational tools and techniques

*Computer Science is the new Math*

*-- Christos Papadimitrou*

Computational thinking is a fundamental skill for our age.

## Course Organization

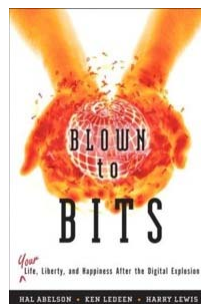
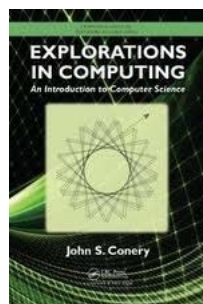
- Instructors:
  - Dilsun Kaynar and Ananda Gunawardena
- Lectures: Mon/Wed/Fri
  - First section: 2:30 to 3:20
  - Second section: 3:30 to 4:20
- 14 recitation sections meet on Thursday
  - Which one are you in? Where does it meet?
- 22 Course Assistants (CAs) to help you!

## Office Hours

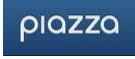
- Instructors
  - Ananda Gunawardena: Tuesdays 3:30 – 4:30
  - Dilsun Kaynar: Thursdays 3:30 – 4:30
- Course Assistants (many in the evening)
  - See course Web page for schedules
- Starting this weekend

## Resources

- Course web page:  
[www.cs.cmu.edu/~15110-s13](http://www.cs.cmu.edu/~15110-s13)
- Textbooks:



## Resources

-  course message board
- Additional one-on-one tutoring help available through Academic Development. See their web page.
- Ruby textbooks and other materials available on the Resources page of the course web site.

## Assignments

- Written problem sets:
  - Go out on Friday
  - Due next Friday at start of lecture
- Labs: do in recitation; hand in at end.
- Programming assignments:
  - Go out on Wednesday
  - Due next Tuesday night (11:59 PM)

## Late Policy

- Assignments must be handed in on time.
  - Late assignments receive a grade of 0.
- We will drop 1 written assignment and 1 programming assignment without penalty (except where noted) – you need to have submitted it.

## Exams

- You must take all the exams, at the time they are given.
- No makeups except for extreme circumstances (major illness, death in immediate family, or a university-sanctioned event with documentation and prior permission)
  - 2 Lab Exams (done on the computer)
  - 3 Written Exams
  - Final Exam

## Academic Integrity Policy

- University Policy on Cheating and Plagiarism
- Academic Integrity Form
  - On the SYLLABUS page of the class web site.
  - Print it out.
  - Read it.
  - Sign it.
  - Bring it to class on Friday 1/18