



# CS130 Software Tools

Spring 2011

Professor Chadd Williams  
February 1, 2010

# Chadd Williams

---

<http://zeus.cs.pacificu.edu/chadd>

chadd@pacificu.edu

Office: 202 Strain

Office Hours

T 10-11 am

T 1-2 pm

Th 2-3 pm

F 1-2 pm

or by Appointment

# Course Website

---

- <http://zeus.cs.pacificu.edu/chadd/cs130s11>
  - Tentative Schedule
    - handouts
    - Assignments
  - Syllabus

# Respect!

---

- Class starts promptly at 4:30pm !
- You: Arrive on time!
- Me: End class on time!
  
- Turn off your electronic devices!
- Participate! Ask questions!

# How to Succeed

---

- Don't miss class.
- Take notes
- Practice!
  
- Start assignments early
- they take longer than you think
- Do as much on your own as possible.



[http://static.eway.com/catalog/1/ce05\\_127973\\_pfd.jpg](http://static.eway.com/catalog/1/ce05_127973_pfd.jpg)

# How to Succeed

---

- Read the assignments carefully and follow all directions
- See me **as soon as possible** about any questions!
- Don't forget that you are at a small school!  
– and you are paying for it!

# How to send an effective email

---

To: chadd@pacificu.edu  
From: hall4242@pacificu.edu  
Subject: CS130: Formulas

Hi Chadd,  
I'm working on the volume assignment  
and I'm not sure how to calculate a cube  
of a number in Excel. Any hints?

Thanks,  
Lesley

# Homework #0 (worth 5 points)

---

- Homework assignment #0
- Fill out the survey on the class schedule
- Bring a printed copy **to my office**
- DUE: By Monday 4pm
- Be prepared to discuss your answers!



# Course Overview

---

- What is Computer Science?
- Why are you here?
  - What do you expect to get out of the course?

# Course Overview

---

- CS130 is a course on the collection of tools and techniques that you will need to help you through your academic career and perhaps even in your own research if you chose that path
- We will cover design, creation, research, data collection, analysis and reporting of data and information for an academic setting

# Problem Solving

---

1. Understanding the problem
2. Reviewing the "knowns"
3. Researching the "unknown"
4. Formulating your strategy and determining (adopting the right method)
5. Doing the work and understanding the data

# Some Terminology

---

Define each of the following and give an example of each:

hardware

software

open source

# Tool Selection

---

## Word Processing

- Good for what?

# Tool Selection

---

## Spreadsheets

- Good for what?

# Tool Selection

---

## Statistical Analysis

- Good for what?

# Tool Selection

---

## Presentations

- Good for what?



# Key Points

---

- Understand the task at hand
  - select the appropriate tool
- Understand the tool and its limitations
- Not all tools are created equal and cover all aspects of every problem
- This is true regardless of what the vendor of the tool might tell you

# Research Projects

---

- descriptive
- relational
- causal

# Research Methods

---

