1. INTRODUCTION TO SOFTWARE TOOLS

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Professor Douglas J. Ryan

Doug Ryan

http://zeus.cs.pacificu.edu/ryand

ryandj@pacificu.edu

Office: Strain 201

Office Hours: MWF 10:30am – 11:30am

Final Exam

Tuesday, October 17th

6:00pm - 8:30 pm

How to Succeed

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

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!

Ask Questions!

Assignments

- A series of problems to work
 - Build an Excel Workbook
 - Build R scripts
- Where can I work?
 - Scott 204
 - Marsh Labs
 - Library
 - Windows PCs

Ask Questions!

Be sure to test your Excel/R in **this** Lab.

I strongly recommend against using Excel on a Mac for your assignments!

The Mac and Windows versions of Excel are not 100% compatible.

How to send an effective email

To: ryandj@pacificu.edu From: hall4242@pacificu.edu Subject: CS130 - Formulas

Dear Doug,

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

Course Overview

- What is Computer Science?
 - 1. "The study of computing, programming, and computation in correspondence with computer systems."¹
 - 2. "the science that deals with the theory and methods of processing information in digital computers, the design of computer hardware and software, and the applications of computers."²
 - 3. "a branch of science that deals with the theory of computation or the design of computers"
- Why are you here?
 - What do you expect to get out of the course?

Course Goals

- How do you use software to process your data?
 - Course data
 - Research data
 - Software applications for various data analysis
 - Financial planning
- We will cover design, creation, research, data collection, analysis and reporting of data and information for an academic setting

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