CS 160
CS Orientation

Problem Solving Concepts
for the Computer
Chap. 1
Odds and Ends…

Labs - W 4-4 (WNGR 149)
Assignment 2 - Due Friday

* CS 160 is 3 credits
Problem Solving in Everyday Life

1. Identify the problem.
2. Understand the problem.
3. Identify alternative ways to solve problem.
4. Select best alternative.
5. List solution steps for alternative chosen.
6. Evaluate solution.
Difficulties with Problem Solving

• Lack of problem solving experience
• Inadequate solution steps
• Incorrect problem definition
• Alternatives chosen incorrectly
• Invalid logic
• Incorrect solution evaluation
Let’s write the directions to start a car

walk to keys

find/locate

get the keys

bed down

pickup keys

open the door
Activity

• Get into groups of 4-5.
• Write a solution/algorithm for:
  – Tying your shoe laces.
• Exchange solutions with another group, and state why you can or can not accomplish the task based on their instructions.
Important CS Concepts to Learn

- Constants
- Variables
- Operators
- Hierarchy of operations
- Data types
- Equations
- Expressions
- Functions