

Problem Solving

- Understand the course, expectations, policies and procedures:
 - Provide and Review Course Outline on D2L
 - Concise Review of Expectations
 - Accentuate Bullying, Respectful Work Environment, and Prejudices
 - Accentuate Student Code of Conduct and Plagiarism
 - Attendance, Punctuality, and Cell Phones
 - Tim Hortons/Starbucks at Breaktime
 - Food and Drinks in the Lab
 - Review Grading Opportunities
 - Understand Program Expectations of Grades
 - Overview of the Flow of the Course
- Pre-Class Survey – Logic and Basic Knowledge Assessment:
 - What field is your degree?
 - Comp Sci
 - IT
 - Arts/Humanities
 - Other
 - What level of Computer Proficiency do you Possess?
 - Never Used One
 - Marginal
 - Intermediate
 - Advanced
 - What level of Web Proficiency do you Posses?
 - Never used it
 - I use it occasionally
 - I use it extensively
 - I've Created Web Sites before
 - Do you have any understanding of Programming?
 - Yes
 - No
 - Do you have any understanding of Design?
 - Yes
 - No
- Overview of Basic Problem-Solving Methodologies (ie: IPO)
 - What is a Problem and Why does it need to be Solved?
 - Is there a Right or Wrong Way to Solve a Problem?
 - Is there an Efficient and Inefficient to Solve a Problem?
 - What is an Algorithm?
 - What is Pseudo-Code?

- Introduction to IPO Methodology
 - Understand the Problem
 - Extract Requirements
 - Understand what is Expected as Output
 - Figure out how to get from A-B – how to process
- Let's Solve some Problems
 - Convert to a Linear Algorithm:

Jason is a new international student at Langara. His tuition for the year is \$12,000. Jason also has \$12,000 dollars per year in living and misc. expenses. He works a new job that pays him \$14.75/hr, but because he is a student, he can only work 20 hrs per week. How much will Jason have to get from his family?

- Installing and Configuring VS Code.
- Overview of Web Workflow:
 - Change, Save, Refresh
 - Interconnectivity
- File and Folder Structure and Organization.
 - Server Storage
 - Recommended Structure
 - myfiles.langara.ca
- Your First Program