

## **General**

Read through the “Background” section below, then copy and paste the questions out of the “Assignment” section into your word processor and answer the questions. Turn in the questions using the instructions posted on the class web site (see Part 3 of this lab).

At the top of the every document that you create (word processing or source files) include:

// Your name  
// CS-160, Lab #x (replace the X with the Lab #)  
// xxxx Term, 20xx (i.e. Winter Term, 2009)

For ALL Word processing documents, you must submit your documents in one of the following formats: MS-Word (NOT Works), RTF (most word processors can save in this format), or Open Document (used by the freely available Open Office suite). They will be returned ungraded if submitted in any other format.

## **Concepts**

The purpose of this lab is to give students an opportunity to work with some of the on-line resources that will be used during the term and to give you an introduction to the study of computer science and the technical professions. You will get some exposure to jobs available to those who study computer science. Additionally, you explore educational opportunities that can led to entry into the profession.

## **Background**

REQUIRED: Read the web article “[What is Computer Science](http://newterra.chemeketa.edu/faculty/mfry5/)” that is on Mitch’s home page of his instructors web site. The URL is:

<http://newterra.chemeketa.edu/faculty/mfry5/>

Be sure to read BOTH pages (the home page and the page that it links to on bottom of the home page.

## **Assignment Instructions**

Write answers to the following questions and activities using a word processor.

### **Part 1: Computer Science and related professions**

**Q1:** After reading the material in the background section, write how you would describe the differences between the following 5 technology related professions, IN YOUR OWN WORDS, as though you were trying to explain this to another person: 1) Computer Science, 2) Software Engineering, 3) Computer Engineering, 4) Information Technology, and 5) Information Systems and Management Information Systems. Your explanation for each of these should allow someone to understand the differences between these professions.

**Q2:** Explain what you think Edsger Dijkstra meant by his statement: “*Computer science is no more about computers than astronomy is about telescopes.*”

### **Part 2: Exploring the profession and educational opportunities**

Before doing the following questions, visit my class Web Site at:

<http://newterra.chemeketa.edu/faculty/mfry5>

Look through the materials on the tab “CS Advising”.

**Q3:** Explore/Search some of the Tech Career Sites that I have listed on my advising page. Then, using monster.com or dice.com (or similar job hunting sites), find 2 technology oriented jobs that appeal to you and cut and paste the **complete** job descriptions into the document that you are creating for these questions.

**Q4:** Explore the community college and university links from Mitch's advising tab (or do your own search on the Web) to find 2 degree programs that would lead you to being qualified for the types of jobs you identified in question #2. Cut and paste into your document the **complete** class requirements (list of classes that you must complete) to obtain those degrees.

**Q5:** What is your most probable major/area of study or what is your goal for taking this course?

**Q6:** Who is your academic advisor? (if you don't know, then find out!)

**Q7:** Outline your course plan, for each term of the next three terms.

### Part 3: Turning in labs

For this part of the first lab you will learn a bit more about using Windows Explorer to create directories and copy files. The following steps will walk you through the process of turning in labs for this term using the Web.

With the Document (MS-Word compatible file or MS-WordPad) that you created in part 1 of this lab, do the following steps:

- 1) Create a folder (directory) on your disk drive and name the folder with **your name**. A simple way to do this is to open Windows Explorer and double click on the icon for your drive. Then right-click in the folder area of the Window and choose "New->Folder" from the menu ("Folder" is on the second level menu that is attached to "New"). Then type your name to replace "New Folder" so that the folder is now named with your name.
- 2) Drag the MS-Word file that you created into this folder (use "drag copy").
- 3) Find the link "**FTP Instructions**" from the CS160 page of my faculty web site or "**Assignments, InBox-OutBox**" on the WebCT site, and click on it. This should open up a PDF file that will explain the process of submitting your assignments. Read and follow the directions in this document.