**Data Structures and Algorithms II**

**User's Manual – Project 5, by Michael Whitten**

**Setup and Compilation**

1. Download and unzip the submission from eLearning on a Linux box in the multi-platform lab.

2. The submission includes:

* test.cpp: This is the main class
* FileReader.cpp: Performs file reading operations
* Subsequence.cpp Calculates LCS and similarity
* FileReader.hpp: Header file
* Subsequence.hpp: Header file
* UserManual.docx (this file)
* UML.jpg: a simple UML diagram for this program
* Makefile: The programs Makefile

3. Environment: This program has been tested in the multi-platform lab and will run there.

4. Compiling. This program includes a Makefile. At the command line in Linux, type make. The program produces an executable entitled **main**.

**Running the program.** With all files in the same directory, navigate to that directory via the command line, and after compiling with “make”, type **./main** to run the program. When the program is finished, you may type **make clean** to remove generated .o files.

User input: The program requires no user input, all inputs are read from file.

**Output:**

The program will output the LCS of twoStrings.txt, then the length of that LCS. Then it will output the similarities of multiStrings.txt, note that ONLY the similarities are output for part 2, they are not contained within a table.