**Additional Topics for ECE 2036 Final**

New material and topics from Chapters 17-22, threads, and the last lab has been covered since Test II. Chapters 20 and 22 were not covered in extreme detail. Much of the material in these two Chapters was covered in earlier examples and earlier courses.

**File I/O**

 Reading and Writing Files

 Sequential Access and Updates

 Random Access

 Binary Files

**C++ Strings**

 Assignment and concatenation

 Substrings

 Comparing Strings

 Finding Substrings

 Conversion to C strings

**Linked list data structures**

 Using pointers to setup a linked list

Insertion and deletion of a node

Doubly linked lists

Stack, Queues, and Trees

Using C++ templates to set up lists

**STL Library**

Basic containers

Common member functions for STL containers

Using Iterators with containers