**Additional Topics for ECE 2036 Final**

The final will cover all material from Test I and Test II. New material and topics from Chapters 18-20, threads, and the last lab has also been covered since Test II. Chapter 20 was not covered in extreme detail. Much of the material in the final Chapters was covered in earlier examples and earlier courses. There are also some topics below that were not covered in the first two tests given the time constraints.

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**File I/O**

Reading and Writing Files

Sequential Access and Updates

Random Access

Binary Files

**Threads**

Using Threads on multicore processors

Synchronization Issues with Threads

**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