

**COMP 2230 – Data Structures and Algorithm Analysis**

Assignment #4: Queues

## Due Date: Section 01 Oct 3rd, Section 02 Oct 4th

**Chapter 14: coding:**

**Problem 1**: Complete the following Programming Project: 14.1; complete the implementation of the Linked Queue Class.

**Problem 2**: Complete the following Programming Project: 14.2; complete the implementation of the CircularArrayQueue Class.

**Review Topics**:

CH 11: Big O: meanings and calculation from code/algorithms and form functions.

CH 12 Stacks:

Collections

Abstraction

ADT

Java Collections API

Generics

Postfix Expressions

Exceptions

Stack I/F

Stack as an Array

CH 13 Linked Stacks:

Traversing a Maze

Linked Stack

LinearNode<T>

CH 14 Queues

LinkedQueue

CircularyArrayQueue

Ceasar cipher

Ticket Counter Simulation

**Test 1 Format**:

* Closed book
* **1 notes page: you need to have/know the functionality of all data Structures covered on your sheet.**
* Multiple Choice
* Short Answer
* Programming