

## Overview of the course

<p>C++ classes and structs data types pointers, pointer arithmetic functions, types of arguments, return values, overloading arrays</p>
<p>basic I/O – std in and std out file input/output reading in characters and strings and whole lines the file stream, moving forward and back within a file stream</p>
<p>iteration and recursion examples:n!, exponentiation by iteration and recursion</p>
<p>basic data structures - Linked Lists, Queues, Stacks and their implementations; ADT for each of these structures. trees hashing/Hash Tables - implementations heaps/Priority Queues applications of these data structures</p>
<p>searching and sorting algorithms (bubble and quick sorts, sequential and binary searches) implementations (iterative and recursive methods where applicable)</p>