CSC 313 Data Structures

- Main goal: Write well-designed and well documented programs to solve problems.

CSc313: Data Structures

- Review topics in C++ and introduction to Standard Template Library (STL)
- Study various ways to organize and access data, i.e. Abstract Data Type (ADT).
- Introduction to OOD & OOP

CSc510: Analysis of Algorithms: Using ADT to study various methods to analyze and design efficient algorithms.

- Course Outlines

  Review of C++ features
  STL
  Problem-solving techniques – Data Abstraction, Recursion
  Various ADTs: list, stacks, queues, trees, graphs, hashing, sets, maps etc
  Sorting algorithms

- Source codes in the text can be found at:

  http://www.aw-bc.com/cssupport/Carrano.html