<u>Course Overview</u>

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

  <u>CSc220: Data Structures</u>

    - Java language

    - Java APIs (I/O, String, <u>Collections</u>)

    - <u>Study various ways to organize and access data, i.e. Abstract Data Type (ADT).</u>

    - Introduction to OOD & OOP

  <u>CSc340 & CSC510 C++ and Algorithms</u> : ADT in C++ and using ADT to study various methods to analyze and design efficient algorithms.

- Course Outlines

  Java programming language
  Problem-solving techniques – Data Abstraction, Recursion
  ADTs : bags, lists, stacks, queues, trees, graphs, hashing, sets, maps etc
  Java APIs (Collections)