



Data Structures Using Java

CSE 2123

Credit Hours:

3.00

Course Levels:

Undergraduate (1000-5000 level)

Course Components:

Lecture
Lab

Course Description:

Subroutines and modular programming; searching; basic data structures; recursion; introduction to sequential files.

Prerequisites and Co-requisites:

Prereq: 1223.

Course Goals / Objectives:

- Be competent with modular design and structured programming techniques
 - Be competent with commonly used data structures
 - Be competent with how to design and implement abstract data types
 - Be competent with sequential file I/O
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Course Topics:

- Object-oriented programming
 - Recursion
 - Sorting and binary search
 - Linked lists
 - Stacks
 - Queues
 - Binary trees
 - Quizzes, exams, and review
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Designation:

Elective