

Course Schedule for CET 3350 – Applied Data Structures

Instructor: Dr. Michael VanHilst

TextBook: Data Structures and Other Objects Using C++,
Michael Main & Walter Savitch, Addison Wesley

Midterm exams consist of:

1. a subset of the self-test questions from the book,
2. plus programming questions and
3. one programming task

Week 1 (January 10):

Software Development

Week 2 (January 17):

Abstract Data Types & C++

Container Classes

Week 3 (January 24):

Pointers and Dynamic Arrays

Week 4 (January 31):

Linked Lists

Week 5 (February 7):

Templates, Iterators, and STL

Week 6 (February 14):

MidTerm 1 (containers, arrays, linked lists)

Stacks

Week 7 (February 21):

Queues

Week 8 (February 28):

Recursive Thinking

Spring Break

Week 9 (March 14):

Trees

Week 10 (March 21):

Tree Projects

Week 11 (March 28):

Midterm 2 (queues, trees, recursion, iterators, STL)

Searching

Week 12 (April 5):

Sorting

Week 13 (April 12):

Inheritance

Graphs

Week 14 (April 17):

Graphs

Week 15 (April 25):

Review

Final Exam