WILLIAM JESSUP UNIVERSITY

**CSCI-561: “Data Structures and Algorithms”**

**Lesson Plan #1 (March 15-16)**

**(Read Chapter #1 on your own before coming to the class.)**

* March 15, Friday evening
  + 06-08pm: Lecture:
    - Python Review (Chapter 1.)
    - Asymptotic Analysis (Chapter 2)
  + 08-10pm: Class Exercises:
    - Quiz,
    - Programming lab
* March 16, Saturday morning
  + 08:30-10:30am Lecture:
    - Stack,Queue, Deque, Linked list (Chapter 3)
  + 10:30-12:30am Class Exercises:
    - Quiz,
    - Programming lab
* March 16, Saturday afternoon
  + 01:30pm-3:30pm Lecture:
    - Recursion (Chapter 4)
    - Searching and Sorting (Chapter 5)
  + 03:30-05:30pm Class Exercises:
    - Quiz,
    - Programming lab

**Lesson plans #2: (April 12-13)**

* April 12, Friday evening
  + 06-08pm: Lecture:
    - Review
    - Hash Table (Chapter 5)
    - Dynamic Programming (Chapter 4)
  + 08-10pm: Class Exercises:
    - Quiz, programming lab
* April 13, Saturday morning
  + 08:30-10:30am Lecture:
    - Tree Binary heap, Binary Search Tree (Chapter 6)
  + 10:30-12:30am Class Exercises:
    - Quiz, programming lab
* April 13, Saturday afternoon
  + 1:30-3:30pm Lecture:
    - Graph, BFS/DFS, MST/SPT (Chapter 7)
  + 3:30-5:30pm Class Exercises:
    - Quiz, programming lab