WILLIAM JESSUP UNIVERSITY

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

(3 units)

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

* March 15, Friday evening)
  + 06-08pm: Lecture:
    - Python Review,
    - Asymptotic Analysis,
    - Stack/Queue/Deque
  + 08-10pm: Class Exercises: Quiz, programming lab
* (March 16, Saturday morning):
  + 08:30-10:30am Lecture:
    - Single linked list
    - Stack
    - Queue
  + 10:30-12:30am Class Exercises: Quiz, programming lab
* (March 16, Saturday afternoon):
  + 01:30pm-3:30pm Lecture:
    - Recursion
    - Sorting
  + 03:30-05:30pm Class Exercises: Quiz, programming lab

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

* (April 12, Friday evening)
  + 06-08pm: Lecture:
    - Hash Table,
    - Dynamic Programming
  + 08-10pm: Class Exercises: Quiz, programming lab
* (April 13, Saturday morning):
  + 08:30-10:30am Lecture:
    - binary heap,
    - binary search tree,
    - AVL
  + 10:30-12:30am Class Exercises: Quiz, programming lab
* (April 13, Saturday afternoon):
  + 1:30-3:30pm Lecture:
    - Graph,
    - BFS/DFS
    - MST/SPT
    - Topological sorting.
  + 3:30-5:30pm Class Exercises: Quiz, programming lab