

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