Instructor: Ali Şaman Tosun
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Office: NPB 3.310
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Class Time: Monday, Wednesday, Friday 12:00 pm - 12:50 pm
Class Location: TBA
Class Webpage: http://www.cs.utsa.edu/~tosun/TEACHING/CS2123SP16/index.html
Office Hours: Monday, Wednesday, Friday 1:00 pm - 2:00 pm

Textbook: (Optional) Data Structures using C and C++, Y. Langsam, M. Augenstein and A. Tenenbaum
(Optional) A Practical Guide to Linux, Mark Sobel

Objectives: In this course you will learn
1. Basic data structures: linked list, queue, stack, binary tree, hashing
2. How to choose appropriate data structure to solve a given problem
3. How to implement linked structures in C using explicit memory management
4. Analysis of worst case time complexity of algorithms

Prerequisites: CS 1713: Introduction to Computer Programming II

Topics: Chapter 1: Introduction to Data Structures
Chapter 2: The Stack
Chapter 3: Recursion
Chapter 4: Queues and Lists
Chapter 5: Trees
Chapter 6: Sorting
Chapter 7: Searching
Chapter 8: Graphs and Their Applications

Recitation: You should register for CS 2121 Section 3 or 4

Grading: Based on Curve
Assignments: 20% (7 assignments, first 2 and highest 4 out of last 5 count)
Midterm 1: 20% Friday, February 26
Midterm 2: 20% Friday, April 1
Attendance: 5%
Recitation: 10%
Final: 25% Friday, May 6 at 12:30pm
Extra Credit: 3% Jumpstart or Extra assignment

Make-up exams are given only under certain extenuating circumstances. Late homeworks are not accepted.

This Syllabus is provided for informational purposes regarding the anticipated course content and schedule of this course. It is based upon the most recent information available on the date of its issuance and is as accurate and complete as possible. I reserve the right to make any changes I deem necessary and/or appropriate. I will make my best efforts to communicate any changes in the syllabus in a timely manner. Students are responsible for being aware of these changes.