COMP 2710 Software Construction

Fall 2014

Instructor: Dr. Alvin Lim
TR 12:30pm - 1:45pm, Shelby Center, Room 1103
Office hours: TR 3:00pm - 4:00pm (or by appointment)

Lectures and Schedule

This schedule is subject to change. Please refer to Canvas for the latest schedule.

Week	Topics	Reading Assignments	Slides	Assignments	Due
Week 1, 8/19-21	Administrative stuffs Introduction to C++ C++ Basics 1: Introduction and Variables	Ch1.1-1.2; pp. 2 - 9	Lecture 1.ppt Unix.ppt		
Week 2, 8/26-28	C++ Basics 2: Expressions, Assignment Statements, cin/cout, Program Style, Libraries and Namespaces Flow of Control;	Ch1.2-1.5 pp.10-38 Ch2.1-2.3; pp.44-81;	Lecture 2.ppt vi.ppt		
Week 3a, 9/2	Standard string Functions: Basics	Ch9.3; pp.390-407 Ch3 pp.89-124	Lecture 3.ppt	Homework 1	Sept 10 11:55pm
Week 3b, 9/4	Functions: Parameters Structures & Classes: Basics Constructors	Ch 4 pp.138-155 Ch6.1-6.2 Ch 7.1	Lecture 4.ppt		
Week 4, 9/9-11	Software Process: Basics of Analysis Class Design Data Flow Diagram **Quiz 1**		Lecture 5.ppt	Lab 1	Design Portion: **Monday, Sept 15th, 2014 by 11:55 pm** turned in via CANVAS SUBMISSION Programming Portion: **Monday, Sept 22nd, 2014 by 11:55 pm** turned in via CANVAS SUBMISSION
Week 5, 9/16-18	Software Process: Testing Testing/Debugging Functions	Ch4 pp.166-169	Lecture 6.ppt	Homework 2	Sept 24 11:55pm
Week 6, 9/23-25	Arrays Function Basics 2 Functions: Overloading Review	Ch5.1-5.4 Ch3.3 Ch4 pp.133-165	Lecture 7.ppt Lecture 8.ppt		
Week 7a, 9/30	**Midterm Exam**				
Week 7b, 10/2	File I/O	Ch12.1, pp.509-523	Lecture 9.ppt accesspriv.ppt	Lab 2	Design Portion due: Oct 8th 2014 by 11:55 pm. turned in via CANVAS SUBMISSION

					Program due: Oct 15th, 201 by 11:55 pm via Canvas
Week 8, 10/7-9	Midterm exam Discussion Pointers, Dynamic Arrays	Ch10.1-10.2	Lecture 10.ppt		
Week 9, 10/14	How to use gdb Functions and Class Templates Vectors	Ch16 pp.675-688	gdb.ppt Lecture 11.ppt		
Week 10, 10/21-23	Linked Data Structures	Ch17	Lecture12.ppt	Lab 3	Design Portion due: Oct 29th, 2014by 11:55 pm. turned in via CANVAS SUBMISSION Program due: Nov 5th, 2014 by 11:55 pm via Canvas
Week 11, 10/28-30	Overloading Basic Operator Overloading, Friend	Ch8.1 pp315-326 Ch8.1-Ch8.2	Lecture13.ppt	Homework 3	Nov 10 11:55pm
Week 12, 11/4-6	Use Cases Analysis Inheritance	Ch14	Lecture14.ppt Lecture15.ppt		
Week 13, 11/11-13	Polymorphism Virtual Functions	Ch 15	Lecture16.ppt	Lab 4	Design Portion due: Nov 17th, 2014 by 11:55 pm turned in via CANVAS SUBMISSION Program due: Nov 24th, 2014 by 11:55 pm via Canvas
Week 14, 11/18-20	**Quiz 2** System Sequence Diagram Separate Compilation and Namespaces	Ch11	Lecture17.ppt Lecture18.ppt Lecture19.ppt		
Week 15, 11/24-28	**Thanksgiving Break**				
Week 16, 12/2-4	Makefile Header File Final Review		Lecture20.ppt Lecture21.ppt		
Week 17, 12/9 Tue 12:00-2:30pm	**Final Exam**				

Updated (AL): Aug 18, 2014 10:15am