INSTRUCTOR INFORMATION:

NAME	Ali Faheem
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OFFICE	S-426 G
OFFICE HOURS	TR: 10:45-12:30

COURSE INFORMATION:

CODE	COMP 295
CREDITS	2+1
TITLE	Introduction to C/C++
INTRODUCTION	This course provides a conceptual and practical introduction to programming. The focus is on programming rather than the particular choice of programming language, with general principles being brought out through the study of 'C++'. This course will equip students with tools and techniques to implement a given problem programmatically.
COURSE GROUP	Students must join course group on Edmodo. Group code will be provided in class.
AIMS AND OBJECTIVES	To teach programming fundamentals to students To help students analyze and solve programming problems To prepare students in programming for later courses with programming intensive content

TEXT BOOK REFERENCE BOOKS	**Problem Solving with C++, (6th or 7th Edition)** Walter Savitch, Addison-Wesley ISBN 0321531345. ©2009. **C++ Language Tutorial** http://www.cplusplus.com/doc/tutorial/ **Thinking in C++** http://www.mindview.net/Books/TICPP/ThinkingInCPP2e.html Other supplemental readings will be provided by the instructor
IMPORTANT TO KNOW	• <u>Due Dates</u>: All assignments are to be submitted on time. Late activities will not be graded, unless previous accommodations have been made with the course instructor • <u>Assignment Files</u>: All assignment files and project folders that you submit must be named as 'COMP102-XYZ-AssignmentB' and 'COMP102-XYZ-ProjectB', respectively, where XYZ is your roll number and B is the assignment or project number. • <u>Missed Quizzes</u>: There will be no retake for the quiz, unless previous accommodations have been made with the course instructor. Quiz schedule is provided in the course outline. Quizzes may also be announced in class. Make sure to check both. • <u>Attendance</u>: Students are advised to attend all lectures. In-class activities are heavily weighted towards grade calculation. There will be no compensation for missed class activities. It is entirely the students' responsibility to recover any information or announcements presented in the class they have missed. • <u>Academic Honesty</u>: All work that you submit in this course must be your own. Unauthorized group efforts are considered academic dishonesty. You may discuss homework (Assignments, Projects) in a general way with others, but you may not consult anyone else's written work. You are guilty of academic dishonesty if you examine the solution of another student, allow (actively or passively) another student to examine your

solution, or copy from the Internet without complete understanding of the work. University Policy of plagiarism and will be applicable in the case. All cases, no matter how trivial, will be reported to AIC. Cheating or violation of academic integrity in any exam will cause F grade

- <u>Course Group</u>: Your earned marks will be posted on course group regularly, please remain aware of your status in class. It is important that you get access to the course group.
- <u>Class Participation</u>: Lectures are meant to summarize the readings and stress the important points. You are expected to come to class having already critically read corresponding reading material. Your active participation in class is crucial to making the course successful.

ASSESSMENT CRITERIA	15% - Quizzes 15% - Class Activities 20% - Programming Assignments 25% - Mid Term 25% - Final

Week 01	Introduction / Variables	Chapter 1 and 2	
Week 02	Flow of Control	Chapter 3	
Week 03	Functions and APIs	Chapter 4 and 5	Assignment01
Week 04	Streams and File I/O	Chapter 6	Quiz01
Week 05	Arrays and Vectors	Chapter 7 and 8	Assignment02
Week 06	Pointers	Chapter 9	Quiz02

Week 07	Classes and Objects	Chapter 10	
Week 08	Revision / Midterm		
Week 09	Friends and Overloaded Operators	Chapter 11	Quiz03
Week 10	Inheritance	Chapter 15	Assignment03
Week 11	Exception Handling	Chapter 16	Quiz04
Week 12	Templates	Chapter 17	Assignment04
Week 13	Polymorphism		Quiz05
Week 14	Queues and Stacks		
Week 15	Revision / Final Exams		

Disclaimer

Course plan can be changed over the course of the semester. Students will be informed of the change as far in advance as possible.