

King Saud University
College of Engineering
Electrical Engineering Department

Course Syllabus

GE211: Programming in C++
1st Semester 1436/1437H (2015/2016)
Credit Hours: 3

Class Schedule/room: Wednesday (8:00 am - 9:50 am) @ 1B21
Class Section #: 30547

Instructor: Abdulaziz Alqahtani
Office: 2C20/1
E-mail: aqhtani@ksu.edu.sa

Course Description

This course is an introduction of C++ programming language for problem solving in several engineering areas. Topics covered include the following schedule:

Week 1	Introduction to Computers and C++ Programming	Chapter 1
Week 2	C++ Basics: Variables, Assignment, I/O	Chapter 2
Week 3	C++ Basics: Data Types, Arithmetic Operations	Chapter 2
Week 4	Simple Flow of Control: Boolean Expressions, Branching & Loop Mechanisms	Chapter 2,3
Week 5	More Flow of Control	Chapter 3
Week 6	More Flow of Control, I/O	Chapter 3, 4
Week 7	Streams and File I/O, Introduction to Classes and Objects	Chapter 4
Week 8	Function that Return a Value	Chapter 5
Week 9	Functions (cont.)	Chapter 5
	<i>Midterm exam - Wednesday, Nov 11 (6:30 PM)</i>	
Week 10	Arrays, Matrices	Chapter 6
Week 11	Arrays, Matrices	Chapter 7
Week 12	Pointers	Chapters 9
Week 13	Classes: Basics	Chapters 8
Week 14	Projects Review	
Week 15	Review	
--	Final Exam - (two hours)	

Textbook

D. M. Etter and J Ingber, "Engineering problems solving with C++", 2nd edition

References

1. W. Savitch, "Problem Solving with C++", 7th edition
2. <http://www.cplusplus.com/>

Grading:

20%	Midterm
17%	Laboratory
13%	Homework and Quizzes
10%	Project
40%	Final Exam