

### مخطط المقرر

مسمى المقرر : Programming 1  
رمز / رقم المقرر : CPCS 202  
الفصل الدراسي / السنة : 1<sup>st</sup> Semester 1429 – 2008/2009

اسم أستاذة المادة : ديمة حسين الأحمد  
القسم / رقم المكتب / المبنى : Building # 7 (Computer Science)- Office -A119  
التحويل : 6400000 – ext: 63356  
البريد الإلكتروني : dimah\_kaau@yahoo.com  
الساعات المكتبية : Saturday– Monday- Wednesday : 10-12 & Sunday - Tuesday: 10 – 11

اسم أستاذة المادة : سمر عبدالله بابر  
القسم / رقم المكتب / المبنى : Building # 7 (Computer Science)- Office 68-A  
التحويل : 6400000 – ext: 63356  
البريد الإلكتروني : SAB\_CP202@hotmail.com  
الساعات المكتبية : Saturday– Monday- Wednesday : 9-11:30 & Sunday - Tuesday: 9:30 – 11

#### **Text Book:**

- Programming with C++ By John R. Hubbard

#### **References:**

- C++ from the GROUND UP By Herbert Schildt. Osborne, 2003.
- الحاسوب وإيجاد الحلول باستخدام سي بلس بلس للدكتور كمال جنبي
- Object Oriented Programming in C++ By Robert Lafore
- Technical C++ By Andrew C.staugaard
- Lecture Notes + Programming Exercises

#### **Course Description:**

Introductory course covers programming concepts, problem-solving methods, and algorithms development. It includes program designing, debugging, and testing. The covered topics include control structures, iteration statements, functions, parameter passing, library functions, and arrays. Implementations and programs developments will be done using C++ programming language.

#### **Course Objectives:**

- Learning principles of programming and problem solving.
- Learning the syntax and semantics of the C++ programming language and how to implement problem solutions in C++.
- Developing programs in C++ to gain practical programming experience.
- Gaining basic programming and debugging skills.
- Recognizing common C/C++ designing and coding errors.

#### **Student Responsibilities:**

Attend lectures and labs on time besides working on the programming exercises during the normal class lab times, and as much outside of class as necessary to understand. The purpose of the labs is to familiarize you with the concepts necessary to complete the programming assignments and do well on the quizzes and exams.

### General Policies:

- You should keep an extra copy of every program you turn in on the disk for later use.
- No make-up exams will be given.
- Late assignments will not be accepted without documentary evidence.

### Course Calendar:

Month	Week	Date	Topic
شوال	1	18/10 - 22/10	Introduction to C++
	2	25/10 – 29/10	Variables in C++
نوفمبر	3	3/11 – 7/11	Math Operation in C++ + Expressions in C++
	4	10/11 – 14/11	If - Statement
	5	17/11 – 21/11	Selection ( Switch )
	6	24/11 – 28/11	Iteration [do-while-while- break-continue]
		<b>1<sup>st</sup> Exam Wednesday 28/11/1429 == 26/11/2008</b>	
ديسمبر	7	1/12 – 4/12	Iteration [do-while-while- break-continue] + Iteration [for statement]
	8	16/12 – 19/12	Iteration [for statement] + Iteration [nested loops]
	9	22/12 – 26/12	Strings
	10	29/12 – 3/1	Strings + Functions
محرم	11	6/1 – 10/1	Functions
	12	13/1 – 17/1	Recursion + Arrays
	13	20/1 – 24/1	Arrays

		<b>2<sup>nd</sup> Exam Wednesday 24/1/1430 = = 21/1/2009</b>	
	14	27/1 – 2/2	Two-Dimensional Arrays Revision
			<b>Final Lab Exam</b>

**Attendance Policy:**

The student is expected to attend all lectures and labs. New material will be presented in both lecture and lab. The student is responsible for any material missed because of absence or lateness. The absence of 25% of the total lectures will prevent the student from attending the final exam.

**Honesty Policy:**

Students are expected to design, code, and debug their programs individually. Under no circumstances may a student share a copy of their program with another student. A student who shares their program with another student or copies a program from another student will receive a zero for that particular instance assignment. Any student who cheats on an exam or quiz will be prevented from completing that exam and may receive a zero for that particular instance.

Students may discuss a homework assignment to clarify what is required. Students may discuss a specific statement or a couple of statements in a program to determine what it is doing, or should be doing. However, students may NOT share their program with a classmate, nor may students read or copy another student's program.

**Assessment Policy:**

1. Exams test student understanding of programming behavior and concepts, and properties of data structures and algorithms.
2. Lab work and programming assignments provide students with opportunities to demonstrate an understanding of the application and implementation.

**Grading Policy:**

Grades will be based on the following breakdown:

15%	First Exam
20%	Second Exam
20%	Lab
	{ 5% Lab Work
	{ 5% First Lab Exam
	{ 10% Final Lab Exam
5%	Quizzes
40%	Final Exam

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100 Total

**Important Dates:**

- First Exam: 6<sup>th</sup> Week **1<sup>st</sup> Exam Wednesday 28/11/1429 = = 26/11/2008**
- Second Exam: 13<sup>th</sup> Week **2<sup>nd</sup> Exam Wednesday 24/1/1430 = = 21/1/2009**