Philadelphia University
Computer Engineering Department

Course Title: *C++ Programming Language (630203) - Section* **2**
Instructor: *Dr. Qadri Hamarsheh*
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Webpage: **www.philadelphia.edu.jo/academics/qhamarsheh**
Semester: *2011-2012/1*
Class Time: *12:10-13:10 (6717)*
Prerequisite: *None*
Office Hours: *11:10-12:10*   **Office Number:** *712*
Text Book: *C++ How to program, By: H.M.Deitel and P.J. Deitel, 5th ed. Prentice Hall.*

Course Goals: *This course introduces the basic principals of structured programming.*
Students will learn and practice the application of these programming principles to the solution of
Engineering problems using the C++ high-level programming language.

Objectives:

At Completing this module the student should be able to :

- Understand the programming fundamentals.

- Develop algorithms.

- Understand and write searching and sorting algorithms.

- Use Functions, strings and pointers.

Course Contents

		Week
❖	*Introduction to computers and programming*	2nd October
❖	*Introduction to C++, Input / Output commands.*	9th October
❖	*Memory concepts, Arithmetic & relational operators, Control statements I : If & If...else & switch statements*	23rd October
❖	*Control statements III: while & do while loops,* for loop	6th November
❖	*Quiz 1*	
❖	*First Exam Period*	6th – 14th Nov
❖	*Functions: definition + examples, function overloading, recursion*	20th November
❖	*Arrays: definition + examples, Searching, sorting and multidimensional arrays*	27th November
❖	*Pointers: definition, pointer operators, const with pointers + function pointers*	18th December
❖	*Quiz 2*	
❖	*Second Exam Period*	22nd-30th Dec.
❖	*Deadline for DROPPING courses*	5th Jan.
❖	*Quiz 3*	
❖	*String function, File processing*	8th January
❖	*Final Exams period*	15th-24th Jan

Mode of Assessment		
1-	**First Exam**	**20%**
2-	**Second Exam**	**20%**
3-	**Quizzes**	**15%**
4-	**Performance**	**5%**
5-	**Final Exam**	**40%**

References

1- *Richard Halterman, "Fundamentals of Programming: An Introduction to Computer Programming Using C++" 1995*
2- *Jofel Adams, Sanford Leestma, and Larry Nyhoff, "Turbo C++: An introduction to computing" Prentice-Hall, 1996.*
3- *Richard Halterman, "Fundamentals of Programming: An Introduction to Computer Programming Using C++" 1995*
4- *The C++ resource network: http://www.cplusplus.com*
5- *Textbook hompage: http://www.deitel.com/books/cpphtp5*
6- *Free C and C++ resources: http://www.freeprogrammingresources.com/freetutr.html*