



Philadelphia University

Faculty of Engineering - Department of Computer Engineering
Summer Semester 2018/2019

Course Details:

Title:	Programming Language (630263)
Prerequisite:	---
Credit Hours:	3 credit hours (approximately 44 contact hours)
Textbook:	“C++ Programming From Problem Analysis To Program Design”, Fifth Edition, D.S. Malik, 2010 or later
References:	“C++ How to program”, By: H.M.Deitel and P.J. Deitel, 5th ed. Prentice Hall “Problem solving with C++: the object of programming”, By: Walter Savitch, Pearson/ Addison Wesley, 2005
Course Description:	The course is a requirement for all engineering students. It introduces the basic principles of structured programming. Students will learn and practice the application of these programming principles to solve engineering problems using the C++ programming language.
Website:	http://www.philadelphia.edu.jo/academics/srushdan/
Instructor:	Eng. Sultan M. Al-Rushdan Email: srushdan@philadelphia.edu.jo Office: Engineering building, room 6715, ext: 2149 Office hours: SUN, MON, TUE, WED, THU 09:10 – 10:10 , 11:10 – 14:10

Course Outlines:

Week	Topic
1	Course Introduction, Programming Environment
	Basic elements of C++ Input / Output Instructions
2	Variables and Data types Math. Functions
3	Control Statements: selection, multiple selection
4 5	Control Statements: Repetition
6 7	Arrays. One and Two Dimensional arrays
8	Eid Al-Adha
9 10	Functions: <ul style="list-style-type: none">• Definition• Local / Global variables• Call by Reference, Call by value Recursive functions
11	Final Exam

Course Learning Outcomes with reference to ABET Student Outcomes:

Upon successful completion of this course, the student should:

1.	Be able to write computer programs to solve specific engineering problems	[a, b, e]
2.	Be able to develop computer algorithms to solve an engineering problem	[e, b, k]
3.	Have the ability to read and understand existing computer programs	[a, e]
4.	Understand the basics of computer programming: variables, conditions, loops and arrays	[a, k]
5.	Understand the concept of computer functions and have the ability to use them to simplify problem solving	[a, k]
6.	Understand and be able to use Arrays in Computer Programs.	[a, k]

Assessment Guidance:

Evaluation of the student performance during the semester (total final mark) will be conducted according to the following activities:

Sub-Exams: The students will be subjected to two scheduled written exams, first exam and second exam during the semester.

Quizzes: (5) Quizzes of (10-15) minutes will be conducted during the semester.

Final Exam: The students will undergo a scheduled final exam at the end of the semester covering the whole materials taught in the course.

Grading policy:

Mid Term	30% (24 – 28/7/2019)
Quizzes	20%
Final Exam	50%(25 - 28/8 /2019)

Total: 100%

Attendance Regulation:

The semester has in total 45 credit hours. Total absence hours from classes and tutorials must not exceed 15% of the total credit hours. Exceeding this limit without a medical or emergency excuse approved by the deanship will prohibit the student from sitting the final exam and a zero mark will be recorded for the course. If the excuse is approved by the deanship the student will be considered withdrawn from the course.

JUN, 2019