



Jordan University of Science and Technology
Faculty of Computer & Information Technology
Computer Science Department

HSS106CS Introduction To Programming Lab - JNQF Level: 7

Second Semester 2025-2026

Course Catalog

1 Credit Hours. This course offer students a comprehensive hands-on of programming in C++ through which, weekly laboratory experiments will provide hands-on experience in topics covered in this course. Topics covered include fundamentals of algorithms, flowcharts, problem solving, programming concepts, classes and methods, control structures, arrays, strings, and files. Throughout the semester, problem solving skills will be stressed and applied to solving computing problems.

Teaching Method: On Campus

Text Book

Title	C++ Programming: From Problem Analysis to Program Design
Author(s)	D. S. Malik
Edition	5th Edition
Short Name	Textbook
Other Information	

Class Schedule & Room

Section 1:

Lecture Time: Sun : 09:00 - 11:00

Room: CS05-M2L-3

Section 2:

Lecture Time: Sun : 11:00 - 13:00

Room: CS05-M2L-3

Section 3:

Lecture Time: Mon : 09:00 - 11:00

Room: CS06-C5L1

Section 4:

Lecture Time: Mon : 10:30 - 12:30

Room: CS02-PH1L-1

Section 5:

Lecture Time: Mon : 10:30 - 12:30

Room: CS01-PH3 L-1

Section 6:

Lecture Time: Mon : 12:00 - 14:00

Room: CS06-C5L1

Section 7:

Lecture Time: Mon : 13:30 - 15:30

Room: CS02-PH1L-1

Section 8:

Lecture Time: Mon : 13:30 - 15:30

Room: CS01-PH3 L-1

Section 9:

Lecture Time: Tue : 09:00 - 11:00

Room: CS05-M2L-3

Section 10:

Lecture Time: Tue : 11:00 - 13:00

Room: CS05-M2L-3

Section 11:

Lecture Time: Wed : 10:30 - 12:30

Room: CS02-PH1L-1

Section 12:

Lecture Time: Wed : 10:30 - 12:30

Room: CS01-PH3 L-1

Section 13:

Lecture Time: Wed : 13:30 - 15:30

Room: CS01-PH3 L-1

Section 14:

Lecture Time: Wed : 13:30 - 15:30

Room: CS02-PH1L-1

Section 15:

Lecture Time: Thu : 09:00 - 11:00

Room: CS05-M2L-3

Section 16:

Lecture Time: Thu : 11:00 - 13:00

Room: CS05-M2L-3

Tentative List of Topics Covered

Weeks	Topic	References
Week 2	Overview of programming and problem solving	Ch1 From Textbook

Week 3	Input / Output	Ch2 From Textbook
Week 4	Formatting the output/ unary operator/ simple and compound conditions/ one-way if	Ch2, Ch4 From Textbook
Week 5	Control Structure: Two-way if, nested if, and conditional operator	Ch4 From Textbook
Week 6	Control Structure: Switch and while	Ch4, Ch5 From Textbook
Week 7	Control Structure: For and do while	Ch5 From Textbook
Week 8	Control Structure: Nested loops	Ch5 From Textbook
Week 9	Arrays	Ch9 From Textbook
Week 10	Built-in functions	Ch6 From Textbook
Week 11	Value returning functions	Ch6 From Textbook
Week 12	Passing styles and void functions	Ch7 From Textbook

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
The student will edit, compile, and execute simple programs. [1SO2] [1L7S1]	10%	
The student will write a program using the C++ arithmetic operators, input/output methods and appropriate manipulators for formatting. [1SO2] [1L7S1]	16%	
The student will write a program using appropriate selection statements such as if, if-else and switch. [1SO2] [1L7S1]	22%	
The student will write a program using appropriate looping statements such as while, for and do-while. [1SO2] [1L7S1]	20%	
The student will use both one dimensional and multi-dimensional arrays, write a program using functions including (built-in functions, user defined value returning functions and void functions), and use character data and string processing. [1SO2] [1L7S1]	32%	

Relationship to Program Student Outcomes (Out of 100%)										
SO1	SO2	SO3	SO4	SO5	SO6	MSO1	MSO2	MSO3	MSO4	MSO5
	100									

Relationship to NQF Outcomes (Out of 100%)	
	L7S1
	100

Evaluation	
Assessment Tool	Weight
LabWork	20%
Mid Exam	30%
Final Exam	50%

Policy	
Attendance	Attendance is very important for the course. In accordance with university policy, students missing more than 20% of total classes are subject to failure. Penalties may be assessed without regard to the student's performance. Attendance will be recorded at the beginning or end of each class

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