

Course Syllabi

Course Title and Code	COMPUTER PROGRAMMING- CSC111
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➤ **Course Identification and General Information:**

Department	Deanship of Educational Services	Course Level	Level 2
Contact Hours	1 theory class per week for two hours 1 practical lab per week for two hours	Credit Hours	3 (2+2)
Web Address	http://www.des.qu.edu.sa		

➤ **Course Instructor/Coordinator's Name:** Prof. Dr. Abdel Rahman Karawia

➤ **Textbook Title, Author, and Year:**

- Rogers Cadenhead, Sams Teach Yourself Java in 24 Hours, Sams Publishing (6th edition), 2012.

➤ **Other Supplemental Materials:**

- Rogers Cadenhead, Sams Teach Yourself Java in 21 Days, Sams Publishing (6th edition), 2014.

➤ **Specific Course Information:**

- **Catalog Description:** Becoming a Programmer, Writing Your First Program, vacationing in Java, Understanding How Java Programs Work, Storing and Changing Information in a Program, Using Strings to Communicate, Using Conditional Tests to Make Decisions, Repeating an Action with Loops, Storing Information with Arrays.
- **Pre-requisites:** None.
- **Co-Requisites:** None.
- **Required, Elective, or Selected Elective:** Required.

➤ **Specific Goals for the Course:** Summary of the main learning outcomes for enrolled students.

- To learn how to program Java using jdk 7. Students can use their preferred IDE such as Eclipse or Netbeans, but most classroom demonstrations will be in Eclipse.
- The student will program java applications, learn all of the control structures, how to program methods, arrays, classes, inheritance, polymorphism, strings, simple graphics, exceptions, Files, Data Structures, Generics, and Collections. Some coverage of the Unified Modeling Language is mentioned, but the emphasis is on learning how to program Java.

➤ **Program Outcomes Addressed by the Course:**

This course provides the following outcomes with the following relationship:

Preparatory Year Program Outcome	Relationship to Course
1. The course contributes to the development of student skills in English writing, reading and conversation.	Medium
2. The course contributes to the development of student skills in computer and its application in learning process	High
3. The course helps to develop the skill of the students in the learning process.	High
4. The course strengthens ties education collaborative learning (peer-to-peer and other appropriate sources).	Medium
5. The course fosters the development of student skills in creative thinking, innovative and positive.	Medium
6. The course instills the principles and positive communication within groups (enjoy the team spirit).	Medium
7. The course contributes to the development of student skills in methods of constructive dialogue.	Low
8. The course fosters the development of student skills in making decisions.	Medium
9. The course helps to develop the skill of the students in problem solving.	high
10. The course helps to develop the skill of students on constructive criticism.	Medium
11. The course helps to develop the skill of students in compliance and accounting.	Low
12. The course helps to develop the skill of students in interaction with the University environment and for undergraduate study.	High
13. The course helps to develop the skill of students in interaction with the environment and the needs and attitudes of the community and science.	High

14.	The course helps to develop the skill of students on effective interaction on student activities.	Medium
15.	The course helps to develop student skills in the effective interaction in volunteer work.	Medium
16.	The course helps to develop student skills in effective leadership.	Medium
17.	The course helps to develop student skills in linking information to realistic applications.	High
18.	The course helps to develop the skill of students on work ethic.	Medium
19.	The course helps to develop student skills in estimating functional responsibility toward national growth.	Medium
20.	The course helps to develop student skills in assessing the scientific career path chosen.	high

➤ **Brief List of Topics to be covered:**

• Becoming a Programmer.
• Writing Your First Program
• Vacationing in Java.
• Understanding How Java Programs Work.
• Storing and Changing Information in a Program.
• Using Strings to Communicate.
• Using Conditional Tests to Make Decisions.
• Repeating an Action with Loops.
• Storing Information with Arrays.
• Creating Your First Object.

➤ **Outcome Assessment:**

1. Direct Assessment

- Midterm Written Exam I
- Midterm Written Exam II
- Final Written Exam
- Quizzes
- Homework
- Integrative Projects
- Students' Portfolios
- Case Study
- Oral Exams
- Written Reports
- Participation in Lecture
- Illustrative Presentations
- Use of Computer Facilities by Students
- Reading of References Related to Course Topics
- Team Work
- Practice in the Lab

2. Indirect Assessment

- Pre-Course Questionnaire
- Post-Course Questionnaire
- Group Discussions
- Students' Interviews

Course Outline:

Week#	Date	Text Sections	Topic (including Q & A, Workshops and Activities) Solve some practical examples during lectures
1	8/5/1438	1	Becoming a Programmer
		2	Writing Your First Program
2	15/5/1438	3	Understanding How Java Programs Work
3	22/5/1438	4	Storing and Changing Information in a Program(I)
4	29/5/1438		Storing and Changing Information in a Program(II)
5	7/6/1438		Storing and Changing Information in a Program(III)
First Quiz			
6	14/6/1438	5	Accepting Input from User
7	21/6/1438	6	Using Strings to Communicate(I)
8	28/6/1438	6	Using Strings to Communicate(II)
	End of 2/7/1438 To 11/7/1438	Midterm Vacation	
9	12/7/1438	7	Using Conditional Tests to Make Decisions(I)
	19/7/1438	Midterm Exam(One Week)	
10	26/7/1438	7	Using Conditional Tests to Make Decisions(II)
11	4/8/1438	8	Repeating an Action with Loops(I)
Second Quiz			
12	11/8/1438	8	Repeating an Action with Loops(II)
Practical Exam(20 Marks)			
13	18/8/1438	9	Storing Information with Arrays(I)
14	25/8/1438		Storing Information with Arrays(II)
Final Exam(40 Marks)			

Marks distribution for CSC111

- 1) 5 marks for quiz 1
- 2) 5 marks for quiz 2
- 3) 30 marks for Midterm Exam
- 4) 20 marks for Practical Exam
- 5) 40 marks for Final Exam