

King Fahd University of Petroleum and Minerals  
College of Computer Science and Engineering  
Information and Computer Science Department  
Fall Semester (071)  
ICS 102 - Introduction to Computing I  
Web Site: <http://www.ccse.kfupm.edu.sa/ics102>  
Discussion: [webcourses.kfupm.edu.sa](http://webcourses.kfupm.edu.sa)

**Catalog Course Description:**

Overview of computers and computing. Introduction to a typical programming language, such as Java. Basic data types and operators. Basic object-oriented concepts. Wrapper classes. Console input/output. Logical expressions and control structures. Memory models and methods. Arrays and strings. More object-oriented concepts.

**Textbook:**

“Absolute Java” by Walter Savitch, Addison Wesley, Second Edition, 2006

**Grade Distribution:**

Activity	Weight
Lab (Quizzes + Project)	20 %
Quizzes	15 %
Homework	5 %
EXAM 1 (7:00-9:00 PM on Wednesday, October 31 <sup>st</sup> , 2007)	15 %
EXAM 2 (7:00-9:00 PM on Saturday, December 1 <sup>st</sup> , 2007)	20 %
Final (7:00-9:00 PM on Wednesday, January 23 <sup>rd</sup> , 2008) [Comprehensive]	25 %

**Notes:**

- Lectures and labs are integrated and they complement each other.
- Cheating will be reported to the Department Chairman.
- Attendance will be checked at the beginning of each class.
- Each 2 Late attendances will be considered as one absence.
- An official excuse must be shown within one week of return to classes.
- Absence of more than 6 hours will result in a DN grade.
- ½ % will be deducted for each lecture absence.
- 1% will be deducted for each lab absence.
- No make-up of Labs, Quizzes, Assignments and Exams.

***Lecture and Lab Schedule:***

Lecture	Week	Topic	Book	Lab#	Lab Topic
1	1	Welcome and Course Overview	1.1	1	Introduction
2		Expressions and Assignment	1.2		
3	2	Strings	1.3	2	Getting started with Java
4		Problem Solving	Ch1		
5	3	Screen Output and Console Input	2.1, 2.2	3	Expressions
6	4	Problem Solving	Ch2		
7		Selection Structures	3.1	4	Strings
8	5	Selection Structures	3.2		
9		Problem Solving	Ch3(I)	5	Selection Structures (Quiz I - Exp. & Strings, 3%)
10		Loops	3.3		
11	6	Loops	3.3	6	Loops
12		Problem Solving	Ch3(II)		
13	7	Introduction to Object Orientation		7	Introduction to File I/O (Quiz II - Selection & Loops, 3%)
14		Classes	4.1, 4.2		
15	8	Classes	4.3	8	Classes I
16		Classes	4.4		
17	9	Classes	5.1, 5.2	9	Classes II
18		Classes	5.3		
19	10	Classes	5.4	10	Classes III (Quiz III - Classes I & II, 3%)
20		Problem Solving	Ch4,5		
21	11	Arrays	6.1	11	Classes IV (Project, 5%)
22		Arrays	6.2		
23	12	Problem Solving	Ch6(I)	12	Arrays I (Quiz IV - Classes III & IV, 3%)
24		2D Arrays	6.3, 6.4		
25	13	Problem Solving		13	Arrays II
26		Exception Handling	9.1		
27	14	File I/O	10.2	14	File I/O (Quiz V - Arrays, 3%)
28		Problem Solving			
29	15	Revision		15	Project Discussion
30		Revision			