

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

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 st , 2007) | 15 % |
| EXAM 2 (7:00-9:00 PM on Saturday, December 1 st , 2007) | 20 % |
| Final (7:00-9:00 PM on Wednesday, January 23 rd , 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 | | | |