

Maryville University Course Syllabus
Spring of 2010

Course Title: *Introduction to Java Programming*
Course No: COSC 150 – 1M
Prerequisite: None
Credits: Three
Meeting time: Mondays: 1st Half Weekly
1/11 1/25 2/1 2/8 2/15 2/22 3/1
6:30-9:45 pm

Instructor: **Dr. Ed Chang**
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Textbook: Murach's Java SE 6, by Joel Murach and Andrea Steelman,
published by Mike Murach & Associates, Inc. in 2007.

Course Description:

This is an elementary-level programming course intended primarily for students interested in current OOP programming. Students should take this course prior to COSC 250. The main purpose for this course is to get more OOP programming skills. This course is suitable for those major or minor in computer science, (computer) software engineering, or electrical engineering. This course is also suitable for those who intend to use advanced programming language in applications such as business, economics, and variety of research. The goal of this course is to cut through the confusion to teach students how to code object-oriented business programs in Java as quickly and easily as possible. This course mostly covers chapters one through fifteen of the textbook. Topics include: java language fundamentals and essentials, java object-oriented programming (OOP), and other related topics.

Course Objective:

The objective of the course is to allow the student to become familiar with the Object-Oriented Programming methods by using java. By the end of the semester, students should be able to use Object-Oriented Programming methods to translate simple algorithms to feasible java programs and to be able to employ object-oriented programming techniques in applications such as simple software design and development.

Course requirements:

Students are expected to attend and participate in all classes, do all homework problems, participate in all the tests, and do all the assigned java programs. No early tests will be given. In the event of illness or grave circumstances, the instructor must be informed without delay. Only in such cases will there be an undiscounted make-up. (All make-up tests must be closed book and closed notes.) Otherwise, the recorded make-up test score is equal to your make-up test score minus five times the number of days you delayed from the regular test schedule, e.g., if you do your make-up test twenty days after the regular test time, your recorded test score will be zero.

Homework:

Homework problems will be assigned at the end of each class.

Lab works:

There will be ten small programming assignments including some in-class programs. All students must try very hard to finish the assignments on time.

Tests:

There will be **one test**. Problems chosen for the tests will be from the lectures and all homework assignments, and will in general be of a slightly easier level than the assigned homework problems.

Instructional methods:

The class will begin with discussing previously assigned homework problems **when necessary** followed by lectures over the day's subject including in class programming practices. The time remaining will be used to answer and discuss questions.

Course calendar:

This course covers mostly **first half of** the textbook with some exceptions. This calendar is tentative. There may be some changes depending on our performance and other situations.

Weeks:

- 1 How to get started and Java language essentials
Introduction to classes, constructors, and objects
- 2: How to work with data
- 3 Control statements and how to validate input data
- 4, 5 Classes, inheritance, and interfaces
- 6, 7 OOP skills, and arrays. Dates and strings, exceptions, and threads
Graphical user interface, get started with swing
- 8 **Test (Comprehensive)**

Grading policy:

Take-home labs (6)	40	points
Test (1)	40	points
Quiz (5)	10	points
Attendance	10	points

Total	100	points

The course grade will be based on your total score:
A, A-: ≥ 90 ; B+, B, B-: ≥ 80 ; C+, C, C-: ≥ 70 ; D: ≥ 60 ; F: < 60 .

Subject to Change Clause

This syllabus is subject to change at the discretion of the instructor to accommodate instructional and/or student needs.