This is the first of a two-course sequence in computer programming using the Java language. This course teaches the basic programming techniques to problem solving in an Object Oriented fashion. It uses the Java language as the tool for programming.

This course is intended for majors in non-scientific areas, who must acquire basic programming skills to supplement their primary areas. It is especially appropriate for students in Information Technology and management disciplines. The course is a three (3) credit course. It does not require any lab, but it requires writing programs.

The concepts covered in this course are:

- The identification of objects and their behavior
- Design and construction of classes
- Primitive data types
- Control structures
- Strings
- Array & ArrayList
- File Input/Output

**Goals of the Course**

- To become knowledgeable in the fundamental concepts, methodologies, and techniques associated with Object Oriented Programming.
- To learn the fundamentals of Java Programming Language:
  - Classes and Objects
  - Fundamental data types
  - Operators and operations on data.
  - Control structures
- Be able to understand and apply the elementary data structure called array.
- To be able to design appropriate class(s) to solve problems.
- To be able to effectively apply the basic features of Java to problem solving.

**Pre-requisite**

This course requires no previous programming experience and no mathematics other than arithmetic skills and some degree of high school algebra. But it does require your hard working and enthusiasm.
**Tentative Grading Scale**

- Midterm: 20%
- Final: 35%
- Programming assignments: 40%
- Class attendance: 5%

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<th>Score Range</th>
<th>Grade</th>
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<tr>
<td>93 - 100</td>
<td>A</td>
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<tr>
<td>90 - 92</td>
<td>A-</td>
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<td>87 - 89</td>
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**Class Policy**

- Assignments are to be submitted in class on the due date specified.
- Make sure that all assignments that are submitted are the right ones.
- All assignments are submitted in a printout of the source code plus the java source code files on a storage media.
- Programs must be free of syntax error; i.e. they must be in executable form in order to get full or partial credit.
- All sheets of papers that you submit must be securely fastened.
- Late assignments will not be accepted, except on the grounds of valid medical reasons.
- Unscheduled test or exam will not be administered, except on the grounds of medical reasons. Hence it is your responsibility to plan ahead so that there is no interruption in your study.
- All students are expected to hand in their own work
- Plagiarism will not be tolerated. Any evidence of it can cause you to fail the course.
- All assignments should include a header or title page with the following information:
  - Student name and identification number.
  - Course number, Course name, and Section number.
  - Assignment number.