Objective

1. Introduction to computer use. Approaches to problem-solving; algorithms and their design; fundamental programming skills;
2. This course is an introduction to computer programming for students with no prior programming experience;
3. We will use the Java programming language, and learn how to build blocks for programs.

Pre-requisites

This course has no prerequisites, but a basic background in math, especially algebra, is needed. Basic computer skills (using a web browser, writing email, using word processing applications, downloading and installing software) are assumed for COMP 110. If you have previous programming experience, such as in a high school course, (especially, a Computer Science AP course) consider taking COMP 401 ("Foundation of Programming") instead.

Post-requisites

This course is required for COMP 401.

Topics

This course will cover the following topics:

- Understanding programming tools: text editors, compilers and IDEs
- Variables, types, values, declarations
- Keyboard input and screen output
- Expressions and assignments
- Flow control
- Loops
- Arrays
- Classes
- Functions
- Object oriented programming
Assignments and Grading
The course will involve a number of take-home assignments and programming projects, quizzes, a midterm exam and a final exam. Assignments are to be handed in by 10:59pm on the due date. Students may discuss and explore general topics with each other, but each student must do their own work including the entire write-up. There may be quizzes during the semester, covering recent materials. The exams, Midterm and Final, will be cumulative. The quizzes and exams will be closed-book.

<table>
<thead>
<tr>
<th>Assignment Type</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Programming Assignments</td>
<td>45%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Midterm Exam</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td>Class Participation</td>
<td>5%</td>
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Late Policy
An assignment is considered late if it is turned in after 10:59 pm on the day it is due, unless otherwise expressed. For the late submission, if less than 24 hours, there will be 25% off. If it is less than 48 hour, there will be 50% off. The submission will not be graded if it is late more than 48 hours. There will be no make-ups permitted for quizzes or exams due to a missed class, unless with an appropriate excuse (such as a doctor's note).

Honor Code
Every student should read about the honor code policy of the school and the department, which is described at: http://www.cs.unc.edu/Admin/Courses/HonorCode.html