Syllabus

Course Information

CS 122
4 Credits

Instructor: Terry Seethoff
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Beginning Date: January 13, 2014
Number of Weeks 16
Meeting Times/Location NSF 1205 MWRF

Course Description

A continuation of CS120. This course provides an opportunity to further develop fundamental programming skills. Topics include introductions to string handling, algorithm analysis, recursion, linked lists, interfaces, inheritance and fundamental data structures.

Textbooks

No text required.


Course Objectives

1. Facility with basic constructs in the Java programming language:
   - scalar data types
   - loops
   - Classes and objects
     - state variables
     - methods
     - access modifiers: public, private, protected, static, final
     - scope
2. Facility with inner classes including anonymous inner classes
3. Facility with inter-object communication
4. Facility with Java Collections
5. Facility with fundamental object design patterns such as Model View Controller (MVC)
6. Facility with fundamental algorithms including
   - sorting
   - linked lists

**Student Expectations**

As explained below, programming assignments will be a major component in your final grade. It is never acceptable to submit work with ideas from others as though it is your own independent effort. If you have gotten help from a colleague or from some existing information such as an online site, then you must credit the source in your submission.

**Grade**

The grade for the course will be based on

- programming assignments 40%
- quizzes 35%
- final exam 25%

**ADA**

*If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (227-1700). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.*