CS 1400 - Fundamentals of Programming

Instructor's Information

- **Instructor**: Garth Tuck
- **Office Location**: Technical Education 111B
- **Office Hours**: Tuesday & Thursday 9:00 am - 11:30 am
- **Phone**: 801-626-7958
- **E-mail**: gtuck@weber.edu

Communication (outside of class)

If you have any questions about the course or need assistance, please contact me in person or by telephone during office hours; or via WSU Online at any time.

Meeting place & times

- **Classroom location**: Technical Education 202S
- **Meeting Times**: Tuesday & Thursday 11:30 pm - 1:20 pm

Required Textbook

Introduction to Programming with Java: A Problem Solving Approach

Course Description

This course covers basic operating system navigation and components of the program development process. The majority of the course covers basic problem solving and program design of a software application using a selected language. Topics presented and discussed depending on selected language include: thinking logically to solve problems, working with input/output devices, compilation and library use, structured programming and modularity concepts, conditional and iterative structures including recursion, object oriented design and data types and structures

Course Objectives

The purpose of this course is to teach the crucial skills of problem solving. The tool used to solve problems in this course is the Java programming language. In order to use Java effectively, students will learn the fundamentals of programming using the syntax of Java. Students will then in turn use those skills to write programs to solve problems.

Website

Supplementary information for the course is available on WSU Online. The Web site contains class notes, PowerPoint slides, class announcements, the course syllabus, tests, and other information for the course. Also, you will submit the end-of-chapter assignments via WSU Online on the due date.

Grading and Evaluation Criteria

- 20% - In Class Assignments
- 30% - Homework Assignments
- 40% - Projects
- 10% - Discussions & Attendance

Course Outline

- Week 1 - Chapter 1 - Introduction
- Week 2 - Chapter 2 - Algorithms and Design
- Week 3 - Chapter 3 - Java Basics
- Week 4 - Chapter 4 - Control Statements
- Week 5 - Chapter 5 - Using Prebuilt Methods
- Week 6 - Chapter 6 - Object-Oriented Programming
- Week 7 - Midterm
- Week 8 - Chapter 9 - Arrays
- Week 9 - Chapter 11 - Recursion
- Week 10 - Chapter 10 - ArrayLists and an Introduction to the Java Collections Framework
- Week 11 - Chapter 13 - Aggregation, Composition, and Inheritance
- Week 12 - Chapter 15 - Exception Handling
- Week 13 - Chapter 16 - Files
Honesty policy

CS Department policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in:

1. an automatic failing grade for the class and
2. a report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct.

Students with Disabilities:

"Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including the syllabus) in alternative formats if necessary." For more information about the SSD contact them at 801-626-6413, ssd@weber.edu, or http://departments.weber.edu/ssd
<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Assignment Description</th>
<th>Due by</th>
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<tbody>
<tr>
<td>Thu, Nov 13</td>
<td>Thu</td>
<td>ICA - Web Page Reader (Find the Errors)</td>
<td>1:30pm</td>
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<tr>
<td>Sun, Nov 16</td>
<td>Sun</td>
<td>HW - Appending Data to an Object File</td>
<td>11:59pm</td>
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<tr>
<td>Thu, Nov 20</td>
<td>Thu</td>
<td>15 points for attending on 04/10/2014</td>
<td>11:59pm</td>
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<tr>
<td>Sun, Nov 30</td>
<td>Sun</td>
<td>Final Project - Game of Hearts Simulation</td>
<td>11:59pm</td>
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<td><a href="https://weber.instructure.com/courses/338885/assignments/1788585">Roll Call Attendance</a></td>
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