CSCE 145: Algorithmic Design I

General Information for Fall 2012

Instructor

Heath Carroll
Office: Swearingen 1d49, Phone: 318-3088 (Google Voice, leave a message)
Email: carrollh@email.sc.edu

Office Hours: Monday and Wednesday 3:30 - 5:30. and Friday by appointment.

Description and Goals

This is the first course in Computer Science and Engineering. It introduces the design of computer algorithms and their implementation in the Java programming language. The prerequisite is MATH 115 or enrollment in MATH 141. No prior programming experience is assumed, but you should already have some experience using a computer. The goals of the course are

1. Introduce computational problem-solving techniques
2. Introduce the use of computers for the construction of software solutions
3. Introduce procedural abstraction
4. Introduce data abstraction and elementary concepts of object-oriented programming
5. Introduce the development of structured, modular algorithms and programs
6. Introduce the Java programming language.
7. Introduce a modern programming development environment: Eclipse.
8. Introduce a scripting language: Javascript.
9. Convey some of the myriad uses for computing.

Class Meeting Times

1. Lecture: Monday and Wednesday 5:30 p.m. to 6:30 p.m. in Swearingen Rm 1C01 (Amoco hall)
2. Labs

Section	Meeting Time	Room	TA	Assistant TA
005	TTh 4:30PM - 6:25PM	Swearingen 1D15	Mr. Lewis Cawthorne	Mr. Lingxi Zhou
006	TTh 6:30PM - 8:25PM	Swearingen 1D15	Mr. Jun Zhou	Mr. Linxi Zhou
007	TTh 12:20PM - 2:15PM	Swearingen 1D11	Mr. Lewis Cawthorne	Mr. Jun Zhou

Course Structure

- *Lectures* present the principles of algorithmic design and how to express your designs in the Java language. The lecture will move along quite fast and you will need to be present in order to keep up with all that is covered.
- *Laboratories* meet to walk through an implementation of the principles that have been presented in lecture. It's your chance to learn how to use Eclipse for writing Java programs.
- *Supplemental Instruction (SI)* is available to assist you in better understanding the course material. The SI program provides peer-facilitated study sessions led by qualified and trained undergraduate SI leaders who attend classes with you and encourage you to practice and discuss course concepts in sessions. Sessions are open to all students who want to improve their understanding of the material, as well as their grades. SI sessions will focus on the most recent material covered in class. Each SI leader holds three sessions per week to go over homework assignments, prepare for exams, and discuss programming examples. Your SI leader is Mr. Amadeo Bellotti. His SI meeting place is HU 301 at 7pm on Mondays, 8pm on Wednesdays, and 9pm on Thursdays. More information about supplemental instruction can be found here. You can contact the Student Success Center at (803) 777-0684 if you have questions about SI.

Class Website

You are responsible for checking the class website regularly. Announcements and assignments will be posted. The URL is: http://www.cse.sc.edu/~carrollh/csce145/index.html

Text

Radhika S. Grover, *Programming with Java: A Multimedia Approach*, Jones & Bartlett Publishers, 2013, ISBN: 9781449638610.

Attendance Policy

You are expected to attend class regularly and keep up with the reading and assignments.

Grading

- We do not accept late work in this course. Assignments are made available to everyone at the same time and are due at the same time. No credit will be given for late assignments. Exceptions to the late policy may be made on an emergency basis. If there is an upcoming event that will prevent your handing in your assignment at the assigned time, you must email a request to your TA no less than 24 hours in advance. Absences due to health problems are usually not exceptions unless you are hospitalized at the time the assignment was due.
- Laboratory assignments will consist of short programs to be written in class. Lab work is due by the end of the lab meeting time and cannot be turned in later for credit.
- Homework assignments are larger programs to be written outside of class. They are to be sent

in *electronically* to the CSE Dropbox or CodeLab before the indicated time on the day they are due, and they **must** be done individually.

- There will be two in-class tests (open book and notes) during the semester as well as two lab tests (open book and notes). The final exam (open book and notes) will be cumulative. Make-up tests will be given only under extremely special circumstances.

Grade Breakdown

26 Lab Assignments	20%
2 Lab Tests	10%
12 Homework Assignments	25%
2 Tests	30%
Final	15%

Exam Dates

First Test	Monday, October 1
Second Test	Monday, November 5
Final Exam	Wednesday, December 10 - 4:00PM

Honor Code

Cheating is defined as giving or receiving unauthorized aid on any assignment, test, or project, or not documenting an outside source of information should one be used. It is unacceptable and will not be tolerated. All offenses will be reported in accordance with the *Carolina Community* student handbook.

Academic sanctions are as follows. For the first offense, a student will receive a grade of 0 for the assignment. For the second offense, the student will receive a grade of F for the course.