CSCE 145: Algorithmic Design I

General Information for Spring 2017

Instructor

James O'Reilly

Office: Swearingen 3D19 until mid-September, then Innovation Center 2221

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Office Hours: Monday,Tuesday 10:30AM – 11:30AM and Wednesday 2:30-3:30PM or 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

- Introduce computational problem-solving techniques
- Introduce the use of computers for the construction of software solutions
- Introduce procedural abstraction
- Introduce data abstraction and elementary concepts of object-oriented programming
- Introduce the development of structured, modular algorithms and programs
- Introduce the Java programming language.
- Convey some of the myriad uses for computing.

Class Meeting Times

- Lecture

Section	Meeting Time	Room
13-21	TR 8:30AM-9:20AM	Swearingen 1C01
26&27	MW 1:10PM-2:00PM	300MN B103

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- Labs

Section	Meeting Time	Room	Lead TA
013	MW 8:00AM-9:40AM	Swearingen 1D11	Yuxin Cui
015	MW 10:00AM-11:40PM	Swearingen 1D11	Kevin Madison
016	MW 10:00AM-11:40AM	Swearingen 1D15	Yuxin Cui
017	MW 12:00PM-1:40PM	Swearingen 1D11	Jiandong Wang
018	MW 12:00PM-1:40PM	Swearingen 1D15	Preston Barbare
019	MW 2:00PM-3:40PM	Swearingen 1D11	Harrison Howell
020	MW 2:00PM-3:40PM	Swearingen 1D15	Jiandong Wang
021	MW 4:00PM-5:40PM	Swearingen 1D11	Zhonghao Liu
026	MW 4:00PM-5:40PM	Swearingen 1D15	Akilesh Maloo
027	TR 2:00PM-3:40PM	Swearingen 1D11	Zhonghao Liu

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. Information about the time and place for supplemental instruction can be found here (http://www.sa.sc.edu/supplementalinstruction/). 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/~oreillyj/csce145.html. Everything should be announced in lab or lecture so, if you must miss a class, please make sure you check the website.

Text

Walter Savitch, *Java: An Introduction to Problem Solving and Programming (8th Edition)*, Prentice Hall, 2017, ISBN-13: 978-0134462035.

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. In the event an assignment was excused it still must be made up and submitted otherwise a 0 will be assigned.

- Laboratory assignments will consist of short programs to be written in class. You are expected to show up to the lab. 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* before the indicated time on the day they are due, and they **must** be done individually.

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

- You are expected to keep track of your own grades regularly. Grades are available on the CSCE Dropbox, which is where you upload your assignments. If there are grades missing by the **final exam** date those assignments will automatically be assigned a 0.

Grade Breakdown

Lab Assignments	20%
Lab Reports	10%
2 Lab Tests	20%
Homework Assignments	20%
2 Tests	20%
Final	10%
Extra Credit	10%

Exam Dates

First Test TBA
Second Test TBA

	Sections	Time
Final Exam	13-21	Dec. 14, Thursday - 9:00 a.m.
	26&27	Dec. 13, Wednesday, - 12:30 p.m.

Honor Code / Cheating

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. Also if another person authorized the use of their code this is considered cheating. Everything developed in this class must be one's own; it must come from one's own mind, through one's appendages, to the computer. All of this is unacceptable and will not be tolerated. Offenses may be reported in accordance with the *Carolina Community* student handbook.

Academic sanctions are as follows. For every offense, the student will receive a grade of 0 for the assignment and be reduced by one full letter grade. Multiple offenses result in a grade of F for the course.

Everything is subject to change