CS1332 Data Structures & Algorithms - Spring 2016

Lecturers:

Monica Sweat, CCB 131, sweat@cc.gatech.edu,
Office Hours: by appointment

Mary Hudachek-Buswell, CCB 137, mhb6@mail.gatech.edu,
Office Hours: TBA

Sitting In/Auditing:

You are not allowed to sit in nor audit this course. "Sitting in" is against GT Policy and is explicitly not allowed. It is our policy as well. You are not allowed to attend without being registered. Problems with this will be turned over to the Dean of Students and/or GT Police. For CS1332, we also do not allow audit.

Prerequisite:

You must have a C or better in CS1331 to remain in this course. If you do not have this prerequisite you will be dropped.

Recommended Textbook:

Data Structures and Algorithms in Java. 6/edition by Goodrich, Tamassia, and Goldwasser 2014 ISBN: 9781118771334 (Kindle edition is fine. The 5th edition is probably also fine.)

Course Website/Resources:

- T-Square: https://t-square.gatech.edu
- Java 8

Course Objectives:

- Develop more skills in individual Java programming
- Work with common data structures used in software development (Arrays, Lists, Graphs, Balanced Search Trees, Hashes, etc.) by coding their low-level implementation
- Become familiar with common algorithms on these data structures
- Work with Big-O notation, allowing good choices about the appropriate data structure and algorithm to use for a particular programming problem
- Improve one's ability to test and debug programs

TAs and You: We have 21 TAs! The schedule of help hours will be on T-Square. Help hours will start during Week 2. Location will be announced then.

Jonathan Jemson	Head TA
Saikrishna Arcot	Senior TA
Afiq Azaibi	TA
Allen Zheng	TA
Alok Tripathy	TA
Ashley Noll	TA
Avery Dingler	TA
Ayan Das	TA
Brody Johnstone	TA
Carey MacDonald	TA
Chad Turner	TA
Cory Brzycki	TA
David Thomson	TA
Eric Martin	TA
John Herndon	TA
Joonho Kim	TA
Julia Neuman	TA
Makoto Raku	TA
Raymond Ortiz	TA
Ria Chu	TA
Siddharth Duddikunta	TA
Scott Messing	TA

Grade Breakdown:

Homework	20%
Exams (3 at 20% each)	60%
Final Exam	20%

Letter Grades: In addition to having a passing average, **you must have a passing exam average (all three exams and the final averaged together) to pass this class. Passing is hereby defined as 70% or higher**. There is no curve in this course. Letter grade cutoffs use a straight scale.

Undergraduate Students:

90.00 and above	A
80.00 to 89.99	B
70.00 to 79.99	C
60.00 to 69.99	D
below 60.00	F

Graduate Students:

70.00 and above	S
below 70.0	U

Exam Policy: There are no makeups for missed exams. Institute approved absences are rare and do qualify for an exception. Any request for exceptions to the no-makeup policy must be made in advance of the exam unless that is impossible (like a car wreck happens on the way to the exam). Most situations will be referred to the Dean of Students Office for verification. Request by the student to the Dean of Students should be due to incapacitating illness, death in the family, or something similarly serious and be accompanied with supporting documentation. Events such as vacationing, errands, interviews, work conflicts, sleeping through your alarm, alarm malfunction, not being aware of the exam are not valid excuses. The final decision regarding an exception is made solely at the discretion of your lecturer.

Lecture/Workshop(Recitation) Attendance: You must attend your registered Oscar section for lecture and for recitation. Lecture and workshop attendance is expected and assumed.

Timely Handling of Grade Disputes: Grade disputes are rare, but if you find yourself not clear about why points were lost, we have a strict policy and procedure to follow. Disputes of grading on assignments, exams, etc. must be discussed within one week of being available for return. All regrade requests go through the Head TA. Should you find yourself having an issue with a grade, contact the Head TA. Regrade forms are available on T-Square for assignments. The process for exam regrades may be through GradeScope. Consult with the rules given at that time. If the Head TA is unable to resolve the issue, contact your instructor.

Note that if a regrade is submitted via GradeScope, each regrade is for one individual question.

Whether through GradeScope or otherwise, every regrade request must have a detailed reason why a regrade is needed. "I'd like to get more points" is not a valid reason and will result in the request being promptly declined. Furthermore any regrade request that is not respectful and professional will be declined. Be aware that any regrade request may result in your entire exam being regraded. Your grade may go up or down.

Academic Honesty: The work in this course is to be the product of your own programming efforts unless otherwise specified. Plagiarism detection software will be used on your submissions. Evidence of plagiarism will be turned in the Office of Student Integrity.

- File sharing is expressly forbidden. Do not give your code to another student, nor take code from another student. Both activities are academic misconduct and forms of cheating.
- Proper collaboration means talking through problems, assisting each other with debugging, explaining a concept, etc.
- You are not allowed to simply exchange code or write code for others.
- Your submission cannot be similar to another student's submission.
- You are allowed to share JUnits. Use JUnits from other students at your own risk. We will not be endorsing them. See assignments for more details. If you share JUnits, they must be shared on a site that we specify and not in random locations like Facebook, your GitHub account, etc.
- Public GitHub is not allowed.
- Posting your work is not allowed.

Violators of the collaboration policy for this course will be turned in to the Office of Student Integrity.

Homework Submission & Responsibility:
Homework turn-in is via T-Square. Turning in homework properly on T-Square is solely your responsibility. That last statement bears repeating.

Turning in homework properly on T-Square is solely your responsibility.

It is completely within your power to make sure your homework is submitted properly. If you are not conscientious about your submission, then there is a high likelihood you will trip up and not turn in one or more assignments correctly. You are to upload the .java files and any other files required by the assignment. .class files will not be graded and will be given a 0.

1) T-Square will send you a confirmation email. Do not delete that email. If you do not get the email, then trust that we did not get your HW submission. You should get the email almost immediately. No email means no submission, and hence, no grade.

2) After submitting your file(s) for a HW, reload T-Square going to the Assignments link within the CS1332 tab. Look at the assignment in question. You should now see that it says it has been submitted and when.

3) Download a fresh copy of the files from T-Square, saving to a new folder, and then recompile and run that code. Following steps 1, 2, and 3 is truly the only way to confirm what you have turned in.

Failure to upload the proper file(s) for a homework will result in a zero for the assignment. Programs that do not compile or run also receive no credit.

Homework & the Last Week of Class:
The last homework assignment may be due during the final week of class.

Important Dates (all dates are tentative and subject to change):

First Lecture Day	January 11, 2016
Official Holiday - MLK Jr. Day	January 18, 2016
First Workshop Day - Week 2	January 20, 2016
Exam 1	Monday, February 8, 2016
Progress Reports	February 19, 2016
Exam 2	Monday, March 14, 2016
Drop Deadline	March 16, 2016
Spring Break	March 21-25, 2016
Exam 3	Monday, April 18, 2016
Last Lecture Day	April 25, 2016
Final (Sweat A/GR1 sections)	Monday, May 2, 2016, 11:30am - 2:20pm
Final (Hudachek-Buswell B/GR2 sections)	Wednesday, , May 4, 2016, 8:00am - 10:50am