Syllabus
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Note: the syllabus and course schedule are subject to change. Any changes to the syllabus and/or course schedule after the semester begins will be relayed to the students on Canvas or Ed Discussions.

Textbook

The required textbook is Algorithms by S. Dasgupta, C. Papadimitriou, and U. Vazirani. The textbook Algorithm Design by J. Kleinberg and E. Tardos is an excellent reference that you might consider looking at as well.

Grading

The breakdown of the grading will be as follows

(i) Homework: 12%.
(ii) Coding projects: 6%.
(iii) Mini-Quizzes: 7%.
(iv) Logistic quizzes: 3%.
(v) Exams: 72% (three total).

Grade assignments

After all grades are in and all overall percentage scores for students have been computed using the weights described above, grades are assigned. The cutoffs will be as follows.

A: [85%, 100%] B: [70%, 85%) C: [50%, 70%) D: [40%, 50%) F: [0%, 40%)

So, to guarantee an A, get 85% or better overall (not 84.99)
To guarantee at least a B grade, get 70% or better overall (not 69.99), etc.

These cutoffs are final. No adjustment or rounding will be applied.

Homework

There will be 8 homework assignments, with a week available to complete each. Homeworks will be posted on Canvas and submissions will be due at 8am EST on Mondays. There will be no extensions. The homeworks are excellent practice for the exams. Homework will have a set of practice problems and one graded problem, clearly marked on each homework. We will release solutions for the practice problems. You may work with other people on the homework and you can look at any other references (including online). However, you need to write up your solutions from scratch as if you are in an exam without looking at the sources (this is how you will learn the material). You need to cite your sources and collaborators at the end of your solutions.

Coding projects

There will be three small coding projects during the semester. The projects will be similar to the problems in the homework, and you should consider it as a practical complement to your homework. You will have a week to complete each project. Details about the submissions will be released via Canvas and Ed Discussions.
Mini-Quizzes

There will be six mini-quizzes during the semester, different from the Logistic Quizzes below. These quizzes are designed to (1) help you track your understanding of the covered material, (2) give you guidance on how to write your own solutions for the homework and exam questions, and (3) complement your homework. These quizzes are mandatory and will be delivered on Canvas. You cannot collaborate, but you can check your notes, textbook, and lectures. Public comments about these quizzes while they are open are not allowed.

Logistic Quizzes

This set of quizzes is designed to ensure you are aware of our policies and expectations, and focus on three main topics: Course Communication & Logistics, which details how the class is run (communication methods, how to submit assignments, what is and is not in scope, etc); Academic Integrity, which reviews our expectations in terms of collaboration and plagiarism; and an Onboarding Exam which provides students a chance to test their environment to see if it meets our unique Exam Proctoring requirements. These are mandatory and worth 3% of your final grade. You will have unlimited attempts at each quiz (with incorrect answers marked) until they are due. Please see the schedule and Canvas for official due dates.

Exams

Exams are administered on Canvas, through Honorlock. Exams are closed book, you cannot use any additional devices (no calculators, phones, etc. or other applications on your computer) and no additional references (no notes or books). The exam will typically be open for 4 days: starting on a Thursday morning and closing at 8am EST on Monday. You need to finish your exam by 8am EST on Monday so plan your start time accordingly. There are no extensions. We suggest doing the exam at least 24 hours before the deadline.

We will release abundant information about the proctoring system before the exam but here are some things we suggest you to look into now:

• Please refer to this important Honorlock technical requirements.
• Students must have a broadband internet connection.
• Students must have a webcam and microphone.
• Students must have a mirror if their webcam is integrated.
• Students must have a secure, private location to take an exam.
• Students will be asked to provide a picture I.D. as part of the exam process.
• Honorlock is not compatible with Linux OS, Virtual Machines, tablets, or smartphones.
• Honorlock requires that you install the Honorlock Chrome extension into Google Chrome.

We will release more details about the proctoring of the exams the week of the first exam, including a practice exam for you to test the technical part, and get familiar with the exact format you will see on exams.

For proctoring violations, we reserve the right to enforce penalties and/or disqualify the exam.

Gradescope

All assignments will be graded on Gradescope. We will import your information into Gradescope which will create a Gradescope account for you; you are required to use this Gradescope account with the name and GTid that matches exactly with Canvas (otherwise the systems won’t sync and you won’t get a grade). The default due date/time for all homeworks, exams, and projects is Mondays at 8am EST; there are no extensions (so submit the day before in case of unexpected problems).
Regrade policy

Unnecessary regrades cause delays on many important tasks of the course, and they are also time consuming for us. If you are thinking of asking for a regrade you should be prepared to prove that your request is meaningful. In particular, you have to be capable of showing that your answer works, up to some relevant extent. Furthermore, we will have the power to penalize you if you ask for a regrade and we detect that you are not sufficiently prepared on the subject, so you may lose points in the process. The regrade process will be covered in more detail in Ed Discussions.

Students with Disabilities and/or in need of Special Accommodations

If you have any accommodations, you need to inform us as soon as possible, and provide us with the detailed accommodation approval letter from the GT Office of Disability Services. We will work as fast as possible to confirm that we can accommodate your requests.

Waitlists, Registration, Permits, etc.

I am forbidden from doing anything regarding class registration. I cannot issue permits, remove students from waitlists, etc. For guidelines on such matters, please consult https://math.gatech.edu/permits-and-waitlists.

Academic Integrity policy

Plagiarism, unauthorized collaboration, cheating in any form, and sharing course assignments outside of class are considered to be academic integrity violations and in violation of the GT honor code. Your homeworks and projects are subject to checks to ensure academic integrity. All violations will be reported to the GT Office of Student Integrity, and you will be given a 0 on that component of the grade (OSI may impose stricter penalties, especially if you have prior offenses).

For academic integrity violations, we reserve the right to enforce penalties and/or drop a student's letter grade.