Objective
Help students gain an understanding of basic primitives and paradigms of the mathematical understanding of computation. Students will learn to write formal proofs and understand logic.

Required Textbooks and Publisher's Website
URL: http://highered.mcgraw-hill.com/sites/0072880082/student_view0/

Homework assignment problems will come mainly, if not entirely, from the textbook and will be based on the 6th edition’s numbering. It is the student’s responsibility to turn in the correct assigned problems. Solutions of selected odd numbered problems are provided in the back of the textbook. Do not purchase the international edition of this book.

Lecture
Section A MWF 10:05 am – 10:55 am Klaus 1443
Section B MWF 12:05 pm – 12:55 pm Klaus 1456

Attendance is required and assumed.

Recitation/Workshop
Section A1 W 03:05 pm – 04:25 pm Bunger-Henry 380
Section A2 W 04:35 pm – 05:55 pm College of Computing 17
Section B1 W 04:35 pm – 05:55 pm Bunger-Henry 311
Section B2 W 04:35 pm – 05:55 pm Bunger-Henry 380

Attendance for recitation is required and assumed. Recitations are led by TAs and are a good time to bring up any questions about already graded assignments, current assignments, as well as topics from lecture. Graded assignments are typically handed back during recitation.
Tentative List of Topics

- Propositions, Proofs, Propositional Logic.
- Induction and Recursion.
- Basic Counting and Probability.
- Number Theory: Euclid’s Algorithm, Primality, RSA.
- Models of Computation such as Deterministic and Non-Deterministic Finite Automata and Regular Expressions.
- Application of techniques to domains of relevance to computer science.

Grading

- 30% homework (Note: the lowest homework grade will be dropped)
- 40% exams
- 30% final exam

Homework

- Homework will be assigned approximately weekly.
- Homework is due at the start of class on the due date.
- You may submit your homework electronically to T-Square (in pdf format ONLY) or turn-in a paper copy in the lecture room. All homework is due at the beginning of class regardless of format (paper or electronic).
- If using T-square, you must submit your solution directly. This means that the file you attach to your submission must not only be a pdf, but also contain your solutions. Files containing links to another location (such as a google doc) for your solution will not be accepted.
- **NO late homework will be accepted, no exception.**
- **COLLABORATION POLICY:** You may collaborate with current CS1050 students or CS1050 TAs and read any resources you want to solve the problems, but you must indicate with whom you worked and/or resources used. It is not necessary to list CS1050 TAs.
- You are responsible for doing your homework.
- The lowest homework grade will be dropped.
- No makeup homework is assigned.

Exams

- There will be no makeup tests given except under extreme extenuating circumstances. Be prepared to document the reason of your absence (by a medical certificate, court or police record, etc) and advise Professor Sweat ahead of time unless impossible.
- No exams will be dropped.

Regrade/Grade Contest

To request a regrade, the student must fill out the regrade form and turn it in with the original graded assignment within one week after it was officially returned to students. After the one week regrade period has lapsed, an assignment will typically not be regraded. For instance, if homework 1 was given back Wednesday January 20, then you have until the end of the day on Wednesday January 27 to submit the regrade. Regrades after the regrade period can and most likely will be rejected. To turn in the regrade, hand it directly to the Head TA (faster way) or slide it under Professor Sweat’s office door. Note also that the date an assignment was "officially returned to students" is when the assignment was first made available for pick up. It may or may not be the day you actually received yours in the event you missed class, failed to accept yours, etc.
T-Square

http://t-square.gatech.edu

It is solely the responsibility of the student to successfully turn in homework solutions. When submitting anything on T-Square it is the student's responsibility to be sure the intended file is submitted and fully uploaded.
1) T-Square sends a confirmation email. Be sure to read and retain this email.
2) Also after turning in an assignment on T-Square, go to the assignments page and download what was uploaded to double check that the correct file was submitted and correctly uploaded.

Mishandled T-Square submissions will receive no credit. It is solely your responsibility to make sure your homework solutions are turned in.

Honor

http://www.deanofstudents.gatech.edu/Honor/

Section 3 on Student Responsibilities states that “Students are expected to act according to the highest ethical standards. The immediate objective of an Honor Code is to prevent any students from gaining an unfair advantage over other students through academic misconduct”. The following clarification of academic misconduct is taken from Section XIX, Student Conduct Code, of the Rules and Regulations section of the Georgia Institute of Technology General Catalog:

Academic misconduct is any act that does or could improperly distort student grades or other student academic records. Such acts include but need not be limited to the following:

- Possessing, using or exchanging improperly acquired written or verbal information in the preparation of any essay, laboratory report, examination, or other assignment included in an academic course;
- Substitution for, or unauthorized collaboration with, a student in the commission of academic requirements;
- Submission of material that is wholly or substantially identical to that created or published by another person or persons, without adequate credit notations indicating authorship (plagiarism);
- False claims of performance or work that has been submitted by the claimant;
- Alteration or insertion of any academic grade or rating so as to obtain unearned academic credit;
- Deliberate falsification of a written or verbal statement of fact to a member of the faculty so as to obtain unearned academic credit;
- Forgery, alteration or misuse of any institute document relating to the academic status of the student.

While these acts constitute assured instances of academic misconduct, other acts of academic misconduct may be defined by the professor.

Students must sign the Honor Agreement affirming their commitment to uphold the Honor Code before becoming a part of the Georgia Tech community. The Honor Agreement may reappear on exams and other assignments to remind students of their responsibilities under the Georgia Institute of Technology Academic Honor Code.