CSCI/MATH/PHIL 372: Logic and Computers
CSCI 72200: Formal Methods
(Fall 2025)

Time/Place: Tuesday, Thursday $7^{00} - 8^{15}$ PM, HN-1001F

Instructor: Subash Shankar

Office Hours: Fri $3^{30} - 5^{30}$ PM (HN-1000F). Grad advising gets priority after 5.

Contact: 212 650 3392 or preferably `subash.shankar@hunter.cuny.edu`. I am only allowed to answer emails from your hunter account.

Bulletin Board: You should check Brightspace regularly since all class material (schedule, reading lists, homework, corrections, etc.) will be posted there. Please make sure you have configured bb to use your preferred email address, since you are responsible for any email I might send to that address (your Hunter email address, by default).

Prerequisites: CSCI/MATH/PHIL 275 or CSCI 150 or instructor's permission. 'Mathematical maturity' is also needed.

Format: This course will be in person, and not recorded (*i.e.*, you will need to take notes and get notes from friends if you miss a class).

Texts: The text is available on brightspace.

The nature of the topic involves numerous very important fine points that differ across sources, and you must use the notation and techniques of our course for credit in any material this semester.

Reading: You are responsible for all the material in the reading list, even though the lectures will not cover a considerable portion of it.

There will be weekly questions on brightspace based on the reading list for the upcoming week (normally every Sunday night). I will respond there; if my response is 'ask in class', you should follow up.

Homework: There will be one homework set per unit, with 3-4 units total. New problems will be posted on a continual basis after class, and you will not pass this class if you wait until a few days before the entire set is due. Most homeworks will include a 'mini-project' where you will use a logic-based tool to solve a real problem. Feel free to submit homework by email (by due time), but please keep email submissions platform-independent (pdf only, light background, <5GB).

Homework problems are discussed when handed back, *if* you ask me to. Since I assume poor homework grades are due to a lack of effort otherwise, you should make sure to ask me if you have any questions.

While it is allowed to discuss issues with others, all submitted work should be written by yourself. It is standard professional practice to acknowledge any assistance you might have received in your homework, and I will be enforcing this.

Graduate Students: Students enrolled in the graduate version of this course will receive additional (and more rigorous) homework. Graduate students are also required to submit homeworks using LaTeX(though LaTeX-included scans are acceptable for hand-drawn figures). Additionally, there are extra reading assignments and a final paper.

Grading: A passing test grade average is required to pass the course. If you pass the tests, your grade is computed as follows:

40% Homework (including projects)

50% Tests

10% Reading

I may also add points to the above for those who have particularly strong participation.

Grad students: Your final grade will be adjusted by ≤ 2 fractional grades based on extra graduate student work (*e.g.*, a B+ could go up to A or down to B-).

Late Policy: There are no test makeups or late submissions for reading assignments.

	Homework	Project
1 min. – 4 hours	3%	2%
>4 hours	6% /calendar day	3% / calendar day
After handed back	no credit	no credit

Tests: There will be 2 tests. Most test questions will be conceptual and will require a good understanding of the material rather than rote memorization. Thus, you should concentrate on understanding the concepts and knowing how to apply the material.

Other: I ask that all **cell phones** be turned off in class.

All course material (including lectures, solutions, etc.) is owned by me and protected by **copyright**. You may use material for yourself, but any other use (including posting on websites, whether free or not) is illegal without my express written permission and is considered academic dishonesty.

I take **academic honesty** very seriously, and any violation results in sanctions in accordance with Hunter College procedure:
Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.
Academic dishonesty includes uploading or submitting class assignments or exams to third party platforms and websites beyond those assigned for the class, such as commercial homework aggregators, without explicit written authorization of a professor. Any use of generative AI tools must be in line with the usage policy for specific assignments as defined in the course of the syllabus and/or communicated by the course instructor.

In compliance with the **American Disability Act** *of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical and/ or Learning) consult the Office of Accessability located in Room E1124 to secure necessary academic accommodations. For further information and assistance please call (212-772-4857)/TTY (212-650-3230).*

In compliance with the **CUNY Policy on Sexual Misconduct**, *Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.*

a. *Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444).*
b. *All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (`jtrose@hunter.cuny.edu` or 212-650-3262) or Colleen Barry (`colleen.barry@hunter.cuny.edu` or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.*

CUNY Policy on Sexual Misconduct Link: `http://www.cuny.edu/about/administration/offices/la/Policy-on-SexualMisconduct-12-1-14-with-links.pdf`

Bullying, *cyberbullying, online hate, intimidation, threats, harassment, and pressure to share schoolwork are all forms of violence. CUNY holds a zero tolerance stance towards all such acts. The University is committed to prevention of any form of bullying, will respond promptly to threats and/or acts, and will protect victims of bullying from retaliation. As a criminal matter, the New York Attorney General defines cyberbullying as the use of email, websites, instant messaging, chat rooms, text messaging and digital cameras to antagonize and intimidate others. Disrupting a teleconferencing platform (such as Zoom/Skype/Blackboard Collaborate Ultra) is a federal crime.*

This course partially fulfills the CSCI department's learning goals 1A, 1C, 1D, and 3A-D.

The syllabus is subject to change, and updated versions will be posted.