CSCI/MATH/PHIL 372: Logic and Computers
CSCI 72200: Formal Methods
(Fall 2020)

Meeting Time: Monday, Wednesday $7^{00} - 8^{15}$ PM

Instructor: Subash Shankar

Office Hours: TBD

Contact: 212 650 3392 or preferably `subash.shankar@hunter.cuny.edu`.

Bulletin Board: You should check Blackboard 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 prefered 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

Format: This course will be synchronous (*i.e.*, at time of class) and use zoom.

Texts: The text is available on bb. An additional book you may find helpful is:

> Huth and Ryan, Logic in Computer Science, 2nd edition, ISBN 978-0521543101 (not 1st edition)

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

Grading: 40% Homework

60% Tests

Weights are subject to change.

Graduate Students: Students enrolled in the graduate version of this course will receive additional (and more rigorous) homework/test problems. Graduate students are also required to submit homeworks using LaTeX.

Late Policy: There are no test makeups. For homework:

- <24 hours: 5%
- >24 hours: 15% per class day
- After handed back: no credit

Tests: There will be 2-3 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. Proctoring software, which may include the use of browser lock-downs and cameras will be used for examinations in this course.

Homework: There will be one homework set per unit, with the average unit lasting 3 weeks. Most homeworks will include a 'mini-project' where you will use a logic-based tool to solve a real problem. In accordance with CSCI department policy, at least one homework will involve a >5 minute presentation or >500 word paper. Feel free to submit homework by email (before class time on the due date), but please keep email submissions platform-independent (pdf, postscript, etc. are OK, but please do NOT send scans).

All submitted work should be written by yourself. It is standard professional practice to acknowledge any assistance you might have received in your homework, including any work done in a group or taken from other sources. I will be enforcing this.

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.

I take **academic honesty** very seriously, and any violation results in an automatic F for the course along with sanctions in accordance with Hunter College procedure. The official college statement is:

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.

*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

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