CS 4995 – Fall 2021
Logic and Computability

Lectures: Monday/Wednesday 2:40-3:55, 415 Shapiro
Instructor: Toniann Pitassi, toni@cs.columbia.edu
Office hours: Monday 4-5
TA: Oliver Korten

Course Notes: Postscript files for course notes and all course handouts will be available on the web page.

Topics:

Marking Scheme:
3 assignments (each worth 20% of final grade)
First Term test (20% of final grade)
Second Term Test (20% of final grade)

Due Dates:
To be announced
First Test (In Class): Wednesday Oct 13, 2:40-3:55pm 415 Shapiro
Second Test (In Class): Monday, Nov 22, 2:40-3:55pm 415 Shapiro
Assignment 1 due date: Wednesday Oct 6 8pm
Assignment 2 due date: Monday Nov 15 8pm
Assignment 3 due date: Monday Dec 13 8pm

The work you submit must be your own. You may discuss problems with each other; however, you should prepare written solutions alone.

Optional Supplementary References:
H.B. Enderton, A Mathematical Introduction to Logic (undergrad)
G Boolos and R.C. Jeffrey, Computability and Logic (undergrad)
E. Mendelson, Introduction to Mathematical Logic, 3rd edition (undergrad/ grad)
J.N. Crossley and others, What is Mathematical Logic? (informal, readable)

M. Davis, R. Sigal, and E. Weyuker, *Computability, Complexity, and Languages: Fundamentals of Theoretical Computer Science* (undergrad/grad)