CS/Math-4860-2019fa-Lecture 1

August 28, 2019

Abstract

This document describes the workload, grading, and major topics we will cover.

1   Homework, exams, grading, reading, lectures

1. Homework: There will be approximately ten homework assignments that I will grade, perhaps with help from our TA, Andrew Mata who took this course last year. Andrew and I will hold office hours, mostly by appointment, and for me after class as well.

2. Project: Students in consultation with me will pick a topic to study in depth. They will write a research paper on the topic and if you agree will give a 15 to 20 minute talk about it to the class.

3. Exams: There will be no exams, but students will be expected to participate in class discussions.

4. Reading: There will be regular posted lecture notes that students should study and reference. We will study the book *First-Order Logic* by Smullyan [1]. We will cover only chapters I to III and IV to V. You can download a free copy from the Cornell library.

5. We will read parts of several fundamental articles that I will copy for the class.

6. There will be guest lectures from two of the CS Dept researchers in applied logic and type theory, Ariel Kellison and Mark Bickford.

7. Course web page: Please check the course web page often, at least once a week. The lecture notes and various readings will be posted there.

References

[1] R. M. Smullyan. *First–Order Logic*. Springer-Verlag, New York, 1968.