

LGIC 4960/PHIL 4720: Topics in Logic

Fall Term 2023

Prospectus

Scott Weinstein

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The course will focus on topics drawn from the central areas of mathematical logic: model theory, proof theory, set theory, and computability theory. Depending on the interests of participants, we may dwell on subjects at the boundary of logic and theoretical computer science, for example, finite model theory and descriptive complexity.

Format and Requirements

MASKING WILL BE REQUIRED AT ALL CLASS MEETINGS WITH A PREFERENCE FOR N95 OR KN95 MASKS.

The course will meet twice a week as a seminar. The final grade for the course will be based on “civic engagement,” a mix of attendance and active participation, written work in the form of research papers or solutions to problems, and class presentations. Insofar as the course is conceived as a seminar where students who are LGIC Majors may develop research projects that can serve as the basis for senior theses and the award of honors in the Major, class presentations will be strongly encouraged. In the spirit of “civic engagement,” we will collaboratively decide on a definite evaluation rubric at our first class meeting.

Prerequisites

LGIC 3100/MATH 5700 or permission of the instructor.