

**Course Subject, Number and Title**

MATH 975 – Seminar in Foundations – Priority Arguments

Credit

1

Course Web Page:

<http://www.math.wisc.edu/~lempp/teach/975.html>

Course Designations and Attributes

Grad 50% - Counts toward 50% graduate coursework requirement

Meeting Time and Location

M 3:30-4:30pm, Van Vleck B223

Instructional Mode

Face-to-face

How Credit Hours are met by the Course

This class meets for one 1-hour class period each week over the semester and carries the expectation that students will participate by presenting material for one or two class periods during the semester, whose preparation will involve a significant time commitment. The syllabus includes additional information about meeting times and expectations for student work.

INSTRUCTORS**Instructor Title and Name**

Prof. Steffen Lempp and Hongyu Zhu

Instructor Availability

Office hours

Lempp: TR noon – 1pm or by appointment, by Google meet only (send an email for a link)

Zhu: N/A

Instructor Email

lempp@math.wisc.edu and hongyu@math.wisc.edu

OFFICIAL COURSE DESCRIPTION

Official Course Description

A seminar focusing on the technique of forcing constructions in classical and applied computability theory. After a week of introductory lectures by faculty, students will be expected to present one or two forcing constructions to the class in one or two class periods. Enroll Info: Familiarity with MATH 773 is required.

Requisites

Graduate/professional standing or member of the Pre-Masters Mathematics (Visiting International) Program

LEARNING OUTCOMES

Course Learning Outcomes

- Understanding the combinatorics involved in forcing arguments
- Being able to formulate requirements and how they translate into strategies
- Being able to combine strategies and showing that they work

GRADING

- S/U grades are based on student presentation and class participation

COURSE MATERIALS

- Lecture notes and other course materials posted online on course web page

EXAM

- None

HOMEWORK & OTHER ASSIGNMENTS

- Student presentation in class

RULES, RIGHTS & RESPONSIBILITIES

- To see the Guide's Rules, Rights and Responsibilities information, refer to <http://guide.wisc.edu/undergraduate/#rulesrightsandresponsibilitiestext>.

ACADEMIC INTEGRITY

By enrolling in this course, each student assumes the responsibilities of an active participant in UW-Madison's community of scholars in which everyone's academic work and behavior are held to the highest academic integrity standards. Academic misconduct compromises the integrity of the university. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. This includes but is not limited to failure on the assignment/course, disciplinary probation, or suspension. Substantial or repeated cases of misconduct will be

forwarded to the Office of Student Conduct & Community Standards for additional review. For more information, refer to studentconduct.wiscweb.wisc.edu/academic-integrity/.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

McBurney Disability Resource Center syllabus statement: “The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform faculty [me] of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. Faculty [I], will work either directly with the student [you] or in coordination with the McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student's educational record, is confidential and protected under FERPA.” <http://mcburney.wisc.edu/facstaffother/faculty/syllabus.php>

DIVERSITY & INCLUSION

Institutional statement on diversity: “Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world.” <https://diversity.wisc.edu/>