CSE 725 - Computability and unsolvability

Winter 2010
Lectures: MWF 1:30pm–2:18pm, Caldwell Lab 0171
Instructor: Luis Rademacher
Office: DL 495
Email: lrademac@cse.ohio-state.edu
Office hours: MW 2:30pm–3:30pm or by appointment.
Grader: to be announced.


Prerequisites
CSE 625 or equivalent or consent of instructor. Automata theory, mathematical background/maturity (Chapter 0 of Sipser’s book: mathematical proof, by contradiction, by induction, sets, relations, functions, cardinality).

Topics (tentative)


Space complexity. Savitch’s theorem. PSPACE.

Grading (tentative)

Homework every two weeks. For homework, collaboration is allowed, but every student must write and submit his or her own solutions, and include an explanation of any such collaboration.

One midterm (Mon Feb 1, tentative) and one final exam.

Formula (tentative): 30% homework, 30% midterm, 40% exam.