Math 454/504 Fall 2004
Mathematical Logic

Meetings:  TTH 2:35-3:50 in SH 108
Instructor: Guram Bezhanishvili
Office Hours: T 1:30-2:30 W 2:30-3:30 F 11:30-12:30
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Text:  Models and Ultraproducts: An Introduction by Bell and Slomson. The book is out of print, but our department has the photocopy permission, and copies of the needed chapters will be available in the main office. Ask Liz Eres for assistance. We will also use original historical sources by Goedel and Church, photocopies of which I’ll make available.

Objectives: We will cover basics of classical propositional and predicate calculi. Main emphasis will be made on correctness, completeness, and compactness theorems. We will also touch upon ultraproducts and the beginning model theory. Special attention will be paid to recursive and computable functions, and the Church Thesis, which we will study from the original historical sources of Goedel and Church.

Attendance: Students are expected to attend every class and show up on time.

Grading: Your course grade will be determined from your homework (60-70%) and one or two course projects (30-40%). The projects will study recursive and computable functions, and the Church Thesis, which links these two function classes. They will be based on the original historical sources of Goedel and Church.

While working on the projects and homework problems, you may consult with others, but the final solutions should be your own. I will require you to write clear prose in the work you turn in, and to be as coherent and correct as possible. You will be required to turn your written work in on time.

Disabilities: If you have or believe you have a disability and would benefit from any accommodations, you may wish to self-identify by contacting the Services for Students with Disabilities (SSD) Office located at Garcia Annex (phone: 646-6840). If you have already registered, please make sure that your instructor receives a copy of the accommodation memorandum from SSD within the first two weeks of classes. It is your responsibility to
inform either your instructor or SSD representative in a timely manner if services/accommodations provided are not meeting your needs.

If you have a condition which may affect your ability to exit safely from the premises in an emergency or which may cause an emergency during class, you are encouraged to discuss any concerns with the instructor and/or Mr. Michael Armendariz, SSD Coordinator. Feel free to call Ms. Elva Telles (EEO/ADA and Employee Relations Director) at 646-3333 with any questions about the Americans with Disabilities Act (ADA) and/or Section 504 of the Rehabilitation Act of 1973. All medical information will be treated confidentially.

Other: If you have any questions or comments, please come and talk to me.