

CS 353: ALGEBRAIC LOGIC: II  
This Year's Syllabus  
Autumn 2002

- Instructor: Prof. Vaughan Pratt, Gates 478, 3-2943, pratt@cs
- Time: MW 1:15-2:30
- Place: Gates 100, Stanford
- First meeting: Wed. Sept. 25

This year for a change of pace we will study Chu spaces, category theory, linear logic, and any universal algebra needed for prerequisites. Course notes are available at <http://boole.stanford.edu/cs353>, click on "Handouts."

The notes are organized into ten chapters covering the following material.

1. Introduction to Chu Spaces
2. Categories and Functors
3. Special Realizations via Chu Spaces
4. General Realizations via Chu Spaces
5. Categories: Limits and Colimits
6. Operations on Chu spaces
7. Axiomatics of Multiplicative Linear Logic
8. Transformational Logic
9. Naturality in Chu
10. Full Completeness of MLL for Chu Spaces

These will be covered in ten weeks, though not all chapters will be covered in the same depth.

The homework system is described on the web page.