

## CSC 244/444, Fall 2007: Weekly Lecture Schedule

Dates	Events	Assign.	Due	Back	Text B&L	Suppl. R&N	Topics
Sept. 4 Sept. 6					TA ch. 1	Wil. §8.1	Intro. to Lisp Intro.; role of logic in AI
Sept. 11 Sept. 13		Lisp0 Proj.			ch. 2 ch. 2	§8.2-4	Rep.'g knowledge in FOL Semantics of FOL (2 lec.)
Sept. 18 Sept. 20		As. 1/Lisp1	Lisp0		ch. 3 G&N: 3	§7.3-4 §7.5, 9.1	Validity & entailment Proofs, soundness, completeness
Sept. 25 Sept. 27			As. 1	Lisp0	Notes ch. 4	§9.2 §9.5	Natural deduction Resolution
Oct. 2 Oct. 4		As. 2/Lisp2	Lisp1	As. 1	G&N: 4 G&N: 4	§9.5 p. 300	Resolution Resolution & deductive Q-A
Oct. 9 Oct. 11			As. 2	Lisp1	Notes ch. 5	p. 303-4 p. 304-6	Paramodulation Resolution strategies
Oct. 16 Oct. 18		As. 3		As. 2	Notes ch. 7		Specialist inference Production systems
Oct. 23 Oct. 25		Lisp3	Lisp2		ch. 8 ch. 11.2	§10.6 §10.7	Frames NMR, CWA
Oct. 30 Nov. 1			As. 3		ch. 11.2 Notes	§10.7 §10.7	CWA, cont'd Pred. Completion
Nov. 6 Nov. 8				As. 3	Notes ch. 12	§10.7 §14.1-4	COMP, (CIRC: B&L 11.3) Bayes' rule, etc.
Nov. 13 Nov. 15	Test			Lisp2	ch. 11.4	§6.6	Default logic
Nov. 20 Nov. 22	Thanks		abstr., Lisp3		Charniak	§15.1-3	Bayes nets
Nov. 27 Nov. 29		As. 4/Lisp4		Test/Lisp3	ch. 14 ch. 14	§7.6	States, change, frame problem Sol'ns to frame problem
Dec. 4 Dec. 6 Dec. 10		Lisp;As.5	As. 4  Proj.		ch. 14 ch. 15	§11.1-2 ch. 11	Deductive planning STRIPS & $\Delta$ -tables
Dec. 11 Dec. 13	Test 2		As. 5, Lisp4	As. 4	Notes	ch. 11	ABSTRIPS, POP, SATPLAN, etc.

**Course web pages:** <http://www.cs.rochester.edu/u/{schubert/444,daphnel/cs444}>

**Text (required for grads):** [B&L] Brachman & Levesque, *Knowledge Representation and Reasoning*

**Old text (still useful reference):** [G&N] Genesereth & Nilsson, *Logical Foundations of Artificial Intelligence*

**Supplementary reading:** [R&N] Russell & Norvig, *Artificial Intelligence*; For LISP, see course web pages

**Final (noncumulative) test:** 1 $\frac{1}{4}$  hrs, Dec. 13, closed book

**Approximate weights:**

	grads	undergrads
5 assignments	24 $\pm$ 3%	32 $\pm$ 3%
Lisp problems	10 $\pm$ 3%	16 $\pm$ 3%
Midterm test	15 $\pm$ 3%	19 $\pm$ 3%
Final test	30 $\pm$ 3%	33 $\pm$ 3%
Essay/project	21 $\pm$ 3%	

**Instructor office hours:** Len Schubert (CSB 733), 5:00-6:30 Tues./Thurs.

**TA:** Daphne Liu (email: daphnel at cs etc.), office hours (CSB 723) Fri. 9-10 a.m.