Course Information

General Information
Lecturer: Steven Shapiro
Office Hour: Friday 2:30 – 3:30 in BA 3219
Course Web Page: http://www.cs.toronto.edu/~steven/kr16/
Bulletin Board: https://csc.cdf.toronto.edu/csc486h1s

ALL ANNOUNCEMENTS WILL BE MADE THROUGH THE COURSE WEB PAGE.
IT IS YOUR RESPONSIBILITY TO VISIT IT FREQUENTLY.

Lectures: Friday 12:00 – 2:00 LM 157
Tutorials: Wednesday 1:00 – 2:00 LM 157

Goal
- Intro to techniques used to represent knowledge & associated methods for automated reasoning
- Foundations for research in KR&R

Textbook
- Two copies on hold in the library

Prerequisites
- A course in AI including some Prolog (e.g., CSC384)
- First-order logic (e.g., CSC330, CSC438, or CSC2404)
- Analysis of algorithms and NP-completeness (e.g., CSC373)

Marking
- 3 problem sets (55%)
- 2 in-class tests (45%)

Format
- 2 hour lectures
- 1 hour tutorial (by arrangement – posted weekly on web).

Important Administrative Dates
Add Deadline: January 24 (undergrad) / January 25 (grad)
Drop Deadline: March 13 (undergrad) / March 1 (grad)
Reading Week: February 16 – 19
Good Friday: March 25 (no class)
Last day of classes: April 8
Final exam period: April 12 – 29
Course Topics (approximate):
1. introduction
2. first-order logic
3. expressing knowledge
4. resolution
5. horn clauses
6. procedural control of reasoning
7. description logics
8. defaults
9. uncertainty
10. diagnosis
11. actions
12. planning
13. answer set programming
14. expressiveness/tractability

Tests
1. Wednesday February 24 20%
2. Friday April 8 25%

Assignments Due
1. Friday February 5 15%
2. Friday March 11 20%
3. Friday April 1 20%

Plagiarism
Plagiarism -- or simply, cheating -- is taken to be the handing in of work not substantially the student's own. It is usually done without reference, but is unacceptable even in the guise of acknowledged copying. It is reprehensible, and the penalty will be severe.

It is not cheating, however, to discuss ideas and approaches to a problem, nor is it cheating to seek or accept help with a program or with writing a paper. Indeed, a moderate form of collaboration is encouraged as a useful part of any educational process. Nevertheless, good judgement must be used, and students are expected to present the results of their own thinking and writing. Never copy another student's work -- it is plagiarism to do so, even if the other student "explains it to you first." Never give your written work to others. Sharing work with others for the purposes of plagiarism is also a violation. Do not work together to form a collective solution, from which the members of the group copy out the final solution. Rather, walk away and recreate your own solution later.

Late Policy
• Late assignments will be handled based on a system of "grace days", as follows: Each student begins the term with 3 grace days. An assignment handed in from one minute to 24 hours late uses up one grace day. 24:01 to 48 hours late uses up two grace days, etc..
• Once you have exhausted your grace days, the penalty is 20% of the assignment total grade for each day.
• Late assignments must be submitted electronically via the CDF website.

Email Policy
If you have a question that isn't confidential, please post it to the course bulletin board instead of sending it by email, so that others can benefit by it. You may expect a response to bulletin board posts and emails by the next business day.

Illness
In the event of an illness or other catastrophe, get proper documentation (e.g., medical certificate), but if you have grace days left, use them. If you need those days back later, give your documentation to me at that time.