

Instructor: Brian Ross

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www.cosc.brocku.ca/Offerings/2P93/

Objective An introduction to logic programming using Prolog.

Text

- *Prolog Programming for Artificial Intelligence (3e)*, Ivan Bratko, Addison Wesley, 2001, ISBN 0201403757.
- (recommended only): *Programming in Prolog (4e)*, W.F.Clocksinn and C.S.Mellish, Springer-Verlag, 1994, ISBN 0-387-58350-5.

Additional Material

- See the reserve reading list in the library for additional books and literature.
- The course web page has additional reference material.

Outline

Topics to be studied may include:

- basic Prolog
- extralogical Prolog
- programming & debugging
- advanced Prolog techniques
- logical basis: propositional and predicate logic
- new directions
- applications
- comparison with LISP

Evaluation

Assignments (5):	40%
Midterm:	15%
Final:	45%

Comments

- A grade of 40% must be obtained on the final to pass the course.
- In order for an assignment to be marked, a completed and signed cover page must be attached to the outside of the envelope containing the assignment.
- Please read the department's policy on medical notes on the COSC home page.

Prolog System

My lectures and examples will use Sicstus Prolog (4.2.3). It will be set up on your command path on sandcastle under Linux. A windows version will be available as well.

In the past, many students have used SWI Prolog (www.swi-prolog.org). This is a free Prolog that is well maintained. However, it is not 100% compatible with Sicstus, especially with its libraries. If you decide to use SWI Prolog, please be aware of the differences. You should tell the TA that you use SWI Prolog in your assignment hand-ins.

Assignments

Assignments are to be done independently. Students should be aware of the Department and University regulations on plagiarism:

<http://www.cosc.brocku.ca/about/policies/plagiarism>
<http://www.brocku.ca/webcal/2012/undergrad/areg.html#sec68>

Plagiarism detection software may be used on assignments.

Assignments will have a due date and a late date. Assignments submitted after the due date and before the late date will be penalized by 25% of the total mark. Assignments will not be accepted after the late date.

Medical notes

Please be aware of the department's policy on medical notes.

<http://www.cosc.brocku.ca/forms/medical>

Important date

Friday March 8: Last date to withdraw without academic penalty.