

# CSC384 – Introduction to Artificial Intelligence, Fall 2021

## Course Information

<b>Section</b>	<b>LEC0101/2001</b>	<b>LEC0201/2101</b>
<b>Instructor:</b>	Bahar Aameri	Ozan Erdem
<b>Lectures &amp; Tutorials</b>	Mon, Wed, Fri 12:00 - 1:00 pm	Mon, Wed, Fri 1:00 - 2:00 pm
<b>Email:</b>	<a href="mailto:csc384-2021-09@cs.toronto.edu">csc384-2021-09@cs.toronto.edu</a>	<a href="mailto:csc384-2021-09@cs.toronto.edu">csc384-2021-09@cs.toronto.edu</a>

**Communication:** Questions and discussion should occur on Piazza. Issues of a personal nature should be directed to the instructor via email or at an office hour. Please put [384] in the subject header.

**\*\* ANNOUNCEMENTS WILL BE MADE THROUGH PIAZZA AND Quercus. IT IS YOUR RESPONSIBILITY TO MONITOR THESE FORUMS FREQUENTLY. \*\***

## Recommended textbook (not required):

- Stuart Russell and Peter Norvig, Artificial Intelligence: A Modern Approach, 3rd edition, Prentice Hall, 2010
  - 2 copies are on 24 hr reserved in the Engineering & Computer Science Library.
  - Lecture notes cover much of the course material.

## Other Recommended books:

- Knowledge Representation and Reasoning. Brachman & Levesque. 2004.
- Computational Intelligence: A Logical Approach. Poole, Mackworth & Goebel, 1998.
- Artificial Intelligence Foundations of Computational Agents, Poole & Mackworth, 2010. Text and more available online: <http://artint.info/>.

## Topics Covered:

1. Introduction to Artificial Intelligence
2. Search (Uninformed, Heuristic, Game-tree)
3. Constraint satisfaction
4. Representing and reasoning with uncertainty (Bayes Nets)
5. Knowledge representation and reasoning

## Course Grading Scheme

Item	Topic	Weight	Tentative Date Out	Tentative Due Date
Assignment 1	Search	11%	Sep 23	Oct 07
Assignment 2	Constraint Satisfaction	11%	Oct 07	Nov 04
Midterm		16%	Oct 22	
Assignment 3	Game Tree Search	11%	Nov 04	Nov 18
Assignment 4	Uncertainty	11%	Nov 18	Dec 09
Final Exam		40%	Exam Period	Exam Period

**\*\* Assignment and test dates are tentative and may be updated \*\***

### Grading Summary: Assignments: 44%, Midterm: 16%, Exam: 40%

- All assignments are to be done individually.
- You must receive at least **40%** on the final exam in order to pass this course.

### Academic Offences

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. Indeed, a moderate form of collaboration is encouraged as a useful part of any educational process. Nevertheless, good judgment 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 individuals copy out the final solution. Rather, walk away and recreate your own solution later. Please read the faculty's Rules and Regulations regarding the code of behaviour on academic matters:

<http://www.artsci.utoronto.ca/osai/The-rules/code/the-code-of-behaviour-on-academic-matters>

### Late Policy

- Late assignments will be handled based on a system of "grace days", as follows: Each student begins the term with **three grace** days. An assignment handed in from one minute to 24 hours late uses up one grace day. An assignment handed in 48:01 to 72 hours late uses three grace days.
- Once you have exhausted your grace days, the penalty is 10% of the assignment total grade for each day.
- The grace days are intended for use in emergencies (e.g., hard drive crash, printer failure or TTC breakdown). Do not use them to buy an extension because of a busy week or you will be out of luck in a true emergency.

### Silent Policy

A silent policy will take effect 24 hours before an assignment is due. This means that no question about the assignment posed after that point will be answered, whether it is asked on the Piazza, by email or in person.