CSC384 – Introduction to Artificial Intelligence, Winter 2018

Course Information
Sections: LEC0101/2001, LEC2001/2201

<table>
<thead>
<tr>
<th>Instructors:</th>
<th>Sheila McIlraith</th>
<th>Sonya Allin</th>
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<tbody>
<tr>
<td>Office:</td>
<td>D.L. Pratt 398D (6 King’s College Rd)</td>
<td>Bahen 3219 (for office hours)</td>
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<tr>
<td>Office Hours:</td>
<td>Thursday, 10:00 – 11:00 AM</td>
<td>Wednesday 4:15 – 5:15 pm</td>
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<tr>
<td>Email:</td>
<td><a href="mailto:sheila@cs.toronto.edu">sheila@cs.toronto.edu</a></td>
<td><a href="mailto:sonyaa@teach.cs.toronto.edu">sonyaa@teach.cs.toronto.edu</a></td>
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<tr>
<td>TAs:</td>
<td>Leon Illanes</td>
<td>Christodoulos Karavasilis</td>
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<td></td>
<td>Alberto Camacho</td>
<td>Katherine Ge</td>
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<td></td>
<td>Andrew Perrault</td>
<td>Federico Mora</td>
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<td></td>
<td>Chloe Pou-Prom</td>
<td>Alexandra Poole</td>
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<td></td>
<td>Maayan Shvo</td>
<td>Randy Hickey</td>
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<td></td>
<td>Xingqi Zhang</td>
<td>Chaoqi Wang</td>
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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.

Course Web Page: [http://www.teach.cs.toronto.edu/~csc384h/winter/](http://www.teach.cs.toronto.edu/~csc384h/winter/)

** ANNOUNCEMENTS WILL BE MADE THROUGH PIAZZA AND THE COURSE WEB PAGE. IT IS YOUR RESPONSIBILITY TO MONITOR THESE FORUMS FREQUENTLY. **

Lectures & Tutorials
LEC0101/2001: Mon, Wed, Fri 1:00 - 2:00 pm
- Mon -- WB 116 (Wallberg Building, 184-200 College St, Room 116)
- Wed and Fri -- LM 162 (Lash Miller, 80 St. George St, Room 162)
LEC2101/2201: Mon, Wed, Fri 3:00 - 4:00 pm
- Mon and Fri -- MP 103 (McLennan Physical Laboratories, 255 Huron St, Room 103)
- Wed -- HS 610 (Health Sciences, 155 College St, Room 610)

*** Plan to attend all 3 hours of contact time. The Friday time slot will regularly be used for lectures. ***

Recommended textbook (not required):
  - 2 copies are on 24 hr reserved in the Engineering & Computer Science Library.
  - Lecture notes cover much of the course material.
  - If you’re buying a book for long-term use, buy the 3rd edition, but the 2nd edition will be an adequate resource if you can access one more affordably.

Other Recommended books:
- Computational Intelligence: A Logical Approach. Poole, Mackworth & Goebel, 1998.

Important Administrative Dates (Unofficial)
Winter Break (no class): February 19 - 23
Drop Deadline: March 14
Good Friday (no class): March 30
Last day of classes: Thursday, April 5 (We have an extra class on this day to make up for classes missed on stat holiday.)
Final exam period: April 9 – 30

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

Course Grading Scheme

<table>
<thead>
<tr>
<th>Item</th>
<th>Topic</th>
<th>Weight</th>
<th>Tentative Date Out</th>
<th>Tentative Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1</td>
<td>Search</td>
<td>10%</td>
<td>January 19</td>
<td>February 5</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>Constraint Satisfaction</td>
<td>10%</td>
<td>February 5</td>
<td>February 28</td>
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<tr>
<td>Midterm</td>
<td></td>
<td>15%</td>
<td>March 7</td>
<td></td>
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<tr>
<td>Assignment 3</td>
<td>Game Tree Search</td>
<td>15%</td>
<td>February 28</td>
<td>March 14 (Part 1)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>March 26 (Part 2)</td>
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<tr>
<td>Assignment 4</td>
<td>Uncertainty (Take Home Assignment)</td>
<td>5%</td>
<td>March 14</td>
<td>April 4</td>
</tr>
<tr>
<td>In-Class Quiz</td>
<td>Covers Assignment 4 Material</td>
<td>5%</td>
<td>April 4</td>
<td></td>
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<tr>
<td>Final Exam</td>
<td></td>
<td>40%</td>
<td>Exam Period</td>
<td>Exam Period</td>
</tr>
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** Assignment and test dates are tentative and may be updated **

Grading Summary: Assignments: 40%, Quiz: 5%, Midterm: 15%, 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.

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 the instructor at that time.