**CSC384 – Introduction to Artificial Intelligence, Fall 2018**
**Course Information**
**Sections: L 101, L 2001, L 201**

| Instructor: | **Fahiem Bacchus** |
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| **Office:** | **PT 398 E** |
| **Office Hour:** | **Wed 4:00-5:00pm; Fri 3:30-4:30pm (Starting Sept 12th)** |
| **Email:** | fbacchus@cs.toronto.edu |

**Emailing:** Discussion and questions about assignments should occur on Piazza. Questions about course material should be asked in person at office hours, at the start or end of lectures, or in tutorials. Course material questions cannot be efficiently answered electronically and so will not be answered by email. 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.

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**Course Web Page:**       http://www.teach.cs.toronto.edu/~csc384h/fall/
**Piazza Instance:**        https://piazza.com/utoronto.ca/fall2018/csc384/
**MarkUs Instance:**       TBA


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


**Lectures & Tutorials**

| L 101 & 2001: | MWF | 1:00 – 2:00 pm | Lash Miller Laboratories (LM), 80 St. George Street, Room 161 |
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| **L 201:** | **MWF** | **2:00 – 3:00 pm** | **Lash Miller Laboratories (LM), 80 St. George Street, Room 161** |

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


**Textbooks**
Recommended textbook (**not required**):
- Stuart Russell and Peter Norvig, Artificial Intelligence: A Modern Approach, 3rd edition, Prentice Hall, 2010
    o 2 copies on 24 hr reserved in the Engineering & Computer Science Library.
    o Lecture notes cover much of the course material.
    o 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:
- Artificial Intelligence Foundations of Computational Agents, Poole & Mackworth, 2010. Text and more available online: http://artint.info/.

**Important Administrative Dates**

Thanksgiving Public Holiday: October 8
Drop Deadline: November 5
Fall Reading Week: Nov 5 – 9
Last day of classes: December 5 (we might have a makeup class on 6)
Final exam period: December 8 – 21

**Topics Covered:**
1. Search (Uninformed, Heuristic, Game-tree)
2. Logical representations and reasoning (Constraint Satisfaction Problems, Knowledge Representation)
3. Representing and reasoning with uncertainty (Hidden Markov Models, Bayes Nets)

**Course Grading Scheme**

| Item | Topic | Weighting | Dates (subject to some Uncertainty!) |
|------|-------|-----------|--------------------------------------|
| Assignment 1 | Search | 11% | Out Sept 17$^{th}$, due Oct 5$^{th}$ @ 10:00pm |
| Assignment 2 | Game Tree search | 11% | Out Oct 9$^{th}$, due Oct 26$^{th}$ @ 10:00pm |
| Midterm Test | | 16% | Friday Oct 19$^{th}$ during class |
| Assignment 3 | Constraint Satisfaction Problems | 11% | Out Oct 31$^{st}$, due Nov 14$^{th}$ @ 10:00pm |
| Assignment 4 | Reasoning with Uncertainty | 11% | Out Nov 14$^{th}$, due Dec 4$^{th}$ @ 10:00pm |
| Final Exam | | 40% | Exam Period |

**Grading Summary: Assignments: 44%, Test: 16%, Final 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 behavior on academic matters:

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

**Late Policy**
- Late assignments **will not be accepted except for documented medical reasons** (note that severe mental distress that has impacted your mental health qualifies as a medical reason). However, the assignments will be broken up into parts and you can hand in the parts that have been completed.

**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**

To be granted an assignment extension or other consideration due to illness (including issues of mental health) you must provide proper documentation: the form
http://www.illnessverification.utoronto.ca/document/Verification of Student Illness (VOI) - March 7 2018 - AODA.pdf
needs to be filled in by a medical professional and handed in.