COMP 3106A: Introduction to Artificial Intelligence

TITLE: Introduction to Artificial Intelligence
LECTURES: Monday, Wednesday 10:05am-11:25am. Location: Online via Brightspace
INSTRUCTOR: Yuhong Guo, YuhongGuo(at)cunet.carleton.ca
OFFICE HOURS: Monday&Wednesday 1:00pm-2:00pm (or by appointment)
OFFICE HOUR LOCATION: Online via Zoom (links on Brightspace)
TEACHING ASSISTANTS & OFFICE HOURS: TBD

PREREQUISITES
COMP 2804 and (COMP 2402 or SYSC 2100) and (COMP 2404 or SYSC 3010 or SYSC 3110).

TEXTBOOK

DESCRIPTION
This course covers important areas and topics of AI, including search algorithms, adversarial search and games, inference, planning, uncertain knowledge and reasoning, (multi-agent) decision making, supervised learning, and reinforcement learning.

GRADING
• Assignments (3): 39%
• Quizzes (3): 39%
• Project: 22%

POLICIES and RULES
• This course will be delivered in a blended online format. Course content will be delivered primarily through pre-recorded videos. Synchronous attendance and participation in the quizzes, presentations, and discussion sections are required.
• You have a 24-hour grace period for the late submission of each assignment. After that, there will be 10% deduction for each day beyond the grace period.
• Quizzes will take place during regular scheduled class time. Quizzes are open-textbook. Each student needs to complete the quizzes individually without consulting to anyone else. Late submission of quizzes beyond one-hour will not be accepted in general.
• Project will be conducted in small groups of 2~3 students. Students will complete a project to solve a problem using AI techniques. The project will comprise: (1) a project proposal, (2) a live demonstration/presentation of the work, and (3) a project report detailing the work completed.
• All the Carleton's standard rules on Equity, Students with special needs, Plagiarism, Academic Integrity etc. hold for this course. All these matters will be handled by appropriate authorities. You
should look into the relevant university publications. If you have questions regarding any such issues, you can ask the School of Computer Sciences Administrative Staff.

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### Information on Academic Accommodations

#### Requests for Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

- **Pregnancy obligation**
  Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

- **Religious obligation**
  Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit https://carleton.ca/equity/focus/discrimination-harassment/religious-spiritual-observances/.

- **Academic Accommodations for Students with Disabilities**
  If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. carleton.ca PMC

- **Survivors of Sexual Violence**
  As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and is survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: carleton.ca/sexual-violence-support

- **Accommodation for Student Activities**
  Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf

For more information on academic accommodation, please contact the departmental administrator or visit: students.carleton.ca/course-outline

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**ODS Academic Integrity Policy webpage**: https://science.carleton.ca/academic-integrity/