

COURSE OUTLINES (SYLLABI) FOR CS4442B/9542B, 2019.1

Artificial Intelligence II

1. General Course Information

A broad range of areas falls into the field of Artificial Intelligence. In this course we give a brief introduction to several active areas of Artificial Intelligence: problem-solving by search (including computer Chess and Go), probabilistic reasoning, machine learning, and deep learning for computer vision.

Course Information

Lectures: M 9:30-11:30 and W 9:30-10:30 in NCB 117

List of Prerequisites

Mathematics 1600A/B or Applied Mathematics 1411A/B, and Computer Science 3307A/B/Y or Software Engineering 3350A/B.

Note: This course does not need CS3346 (Artificial Intelligence I) as prerequisite but it can be helpful if you have taken it beforehand.

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

2. Instructor Information

Prof. Charles Ling, charles.ling@uwo.ca; 519-661-3341 (O, MC 374).

Office Hours: Wed 2:30 to 4:30 pm.

TAs:

Xinyu Yun, xyun@uwo.ca

Da zhi, dzhi@uwo.ca

Consulting Hours: TBD

Students must use their Western (@uwo.ca) email addresses when contacting their instructors.

3. [Course Website](#)

[Here the course website](#) with is a rough schedule of the materials to be covered on the weekly basis. It will be updated regularly. It is your responsibility to check it out often.

4. Course Materials

Main Textbook

[Artificial Intelligence: A Modern Approach](#) Third Edition
S. Russell and P. Norvig. Pearson, 2010.

We will be a combination/modification of [Berkeley AI course](#) and [author's slides](#) directly in lectures. See the [course website](#) for the PPT files to be used in each lecture. Several additional papers or book chapters (PDF files) for the recent work of AI will be distributed and discussed during the course. Check the [Course Website](#) for details.

Students should check OWL (<http://owl.uwo.ca>) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class. Students are responsible for checking OWL on a regular basis.

5. Methods of Evaluation

Grades will be based on:

- 3 in-class quizzes, worth 15%, 20%, 25% respectively of the final mark. The tentative dates of the quizzes are: 2/11, 3/18, 4/8.
- 2 programming assignments, each worth 20%. The tentative due dates of the assignments are: 3/27, 4/9.

6. Accommodation and Accessibility

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or supporting documentation to the Academic Counselling Office of your home faculty as soon as possible. If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in NCB 280, and can be contacted at scibmsac@uwo.ca.

For further information, please consult the university's medical illness policy at http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf.

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (see http://www.registrar.uwo.ca/examinations/exam_schedule.html).

7. Academic Policies

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy, <http://www.uwo.ca/its/identity/activatenonstudent.html>, the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

8. Support Services

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Student Accessibility Services (SAS) at 661-2147 if you have any questions regarding accommodations.

The policy on Accommodation for Students with Disabilities can be found here:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_disabilities.pdf

The policy on Accommodation for Religious Holidays can be found here:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf

Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.