UNIVERSITY OF GUELPH
School of Computer Science
Course Outline

Course Code: CIS*3700	Course Title: Introduction to Intelligent Systems		Date of Offering: Winter 2017
Instructor: Yang Xiang Office hours: By appointment	Office: Email:	Rm 230, J.D. MacLachlan yxiang@uoguelph.ca	

Calendar Description:	Topics:
This course covers the core topics of Artificial Intelligence, namely: agents and environment, search, knowledge representation, reasoning, and learning. The last three topics are covered using logic as the common formalism for coherence. The course introduces a broad range of basic concepts, terminology, and applications, in addition to providing some specific, widely applicable methodologies. Prerequisite(s): (CIS*3750 or CIS*3760), (CIS*2460 or Stat*2040)	• Intelligent agents. • Properties of agent environment. • Solving problems by search (uninformed search and heuristic search) • Adversarial search (MiniMax, Alpha-Beta pruning) • Knowledge representation with logic. • Inference with propositional logic. • Inductive learning and decision trees. • Regression & classification by linear models • Assignments require programming in Java.

Lecture	Lab
Tue, Thur 2:30-3:50PM; Alexander Hall 259	Tue 9:30 - 10:20AM; MacKinnon 231

Required Text:
> S. Russell and P. Norvig,
> Artificial Intelligence: A Modern Approach, (3rd Ed.), Prentice Hall, 2010.

Method of Evaluation:

Course Work	Date	Weight
Assignment A1:	Due Thur. Feb. 2	12%
Assignment A2:	Due Thur. Mar. 16	12%
Assignment A3:	Due Thur. Mar. 30	12%
Midterm:	Thur. Mar. 2	24%
Final Exam:	TBA	40% A student passes the course if the weighted sum of all components $\geq 50\%$.

Academic Integrity

The University of Guelph is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards, and must abide by the applicable policies (Section VIII of the Undergraduate Calendar on "Academic Misconduct").

For educational purposes, assignments of this course are to be completed individually. Any

utilization of external sources must be done with proper references. Work that shows significant unnatural similarity, or that appears to be copied from unacknowledged sources, will be investigated as potential academic misconduct. "Aiding and abetting" is also a punishable offence, and students must be careful not to help others commit offences by giving out their files or allowing others to access their computer accounts.

In this course, Turnitin, integrated with the CourseLink Dropbox tool, will be used to detect possible plagiarism, unauthorized collaboration or copying as part of the ongoing efforts to maintain academic integrity. All submitted assignments will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism. Use of the Turnitin.com service is subject to the Usage Policy posted on the Turnitin.com site.

A major benefit of using Turnitin is that students will be able to educate and empower themselves in preventing academic misconduct. You may screen your own assignments through Turnitin before the due date. You will be able to see reports that show you exactly where you have properly and improperly referenced the outside sources in your assignment.

Acceptable Use Policy for Information Technology

Please read the complete policy found on http://www.uoguelph.ca/web/aupg.shtml.

Changes In Dates On Course Outline

See: Undergraduate Calendar: VIII. Undergraduate Degree Regulations and Procedures, Grading Procedures, Resolution 5.

E-Mail Policy

Students should include their name and course number in every email, *e.g.* Joe Smith: CIS*xxxx, since instructors are often involved in teaching more than one course per term.   To comply with university privacy policy, all emails should be sent from your *mail.uoguelph.ca* account. All students are responsible for reading their *mail.uoguelph.ca* email regularly.

Assignment Submission

Assignments are to be submitted following Assignment Submission Procedure in the course website.   They are expected to be handed in by 11:30PM on specified due dates.   Late submissions are subject to 20% of the total mark per day up to 2 *calendar* days. For instance, the latest time to hand in an assignment due on a Thursday is 11:30PM on Saturday, with the highest possible mark of 60%.

Electronic Recording

The electronic recording of class lectures is expressly forbidden without the prior consent of the instructor. When recordings are permitted they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor.