Computing Science Course Outlines 2021 Summer

CMPT 310 - D100 Artificial Intelligence Survey

**Instructor(s):** TBA

**SFU Surrey**

**Calendar Objective/Description:**

Artificial Intelligence Survey

**Instructor's Objectives:**

This course is a broad introduction to the techniques, methodology, and theory of Artificial Intelligence. Depending on time and class interest, the following topics will be discussed.

Written work for this course will be submitted via Turnitin, a third-party service licensed for use by SFU. Turnitin is used for originality checking to help detect plagiarism. Students will be required to create an account with Turnitin, and to submit their work via that account, on the terms stipulated in the agreement between the student and Turnitin. This agreement includes the retention of your submitted work as part of the Turnitin database. Any student with a concern about using the Turnitin service may opt to use an anonymous identity in their interactions with Turnitin. Students who do not intend to use Turnitin in the standard manner must notify the instructor at least two weeks in advance of any submission deadline. In particular, it is the responsibility of any student using the anonymous option (i.e. false name and temporary e-mail address created for the purpose) to inform the instructor such that the instructor can match up the anonymous identity with the student! Written work for this course will be submitted via Turnitin, a third-party service licensed for use by SFU. Turnitin is used for originality checking to help detect plagiarism. Students will be required to create an account with Turnitin, and to submit their work via that account, on the terms stipulated in the agreement between the student and Turnitin. This agreement includes the retention of your submitted work as part of the Turnitin database. Any student with a concern about using the Turnitin service may opt to use an anonymous identity in their interactions with Turnitin. Students who do not intend to use Turnitin in the standard manner must notify the instructor at least two weeks in advance of any submission deadline. In particular, it is the responsibility of any student using the anonymous option (i.e. false name and temporary e-mail address created for the purpose) to inform the instructor such that the instructor can match up the anonymous identity with the student!

**Prerequisites:**

see go.sfu.ca

**Topics:**

- Philosophical/theoretical foundations of artificial intelligence
- Knowledge representation and reasoning
- Planning and scheduling
- Search methodologies
- Natural Language Processing
- Machine learning
- Computer vision

**Grading:**

Grading will be announced the first week of class.

Students must attain an overall passing grade on the weighted average of exams in the course in order to obtain a clear pass (C- or better).
Academic Honesty Statement:

Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies (http://www.sfu.ca/policies/gazette/student.html).