

CS 411 - Artificial Intelligence I

Fall 2024

Assignment 8

Department of Computer Science

University of Illinois at Chicago

Total Points: 25

1. Explain how first-order logic overcomes shortcomings of propositional logic [4]
2. Express universal quantification in terms of existential quantification [4]
3. Translate the following into first-order logic (17)
  - a. Some students took CS411 in Spring2020 [2]
  - b. Some students wear a hoodie with UIC logo on it [2]
  - c. Something that glitters is not always gold, whereas gold always glitters. [3]
  - d. No one can win with everyone all the time. [4]
  - e. All CS courses are difficult, except two. [6]

NOTE: Due date of Assignment 8 is 11/01/2024 at 9:00am.