

## Instructions for the CD:

- This CD follows the procedures spelled out in your syllabus. That is,
  - This CD is **closed book, closed internet, closed fellow students**.
  - However, you may use any **handwritten** notes (of your creation) in your notebook.
- Read all questions and their instructions thoroughly before you begin. It is always worth your time to plan ahead!
- There is a 50-minute time limit.
- You will be evaluated based on what you include in your explicit answers. Show work where appropriate.

## What you should be able to do on the CD:

1. Complete a truth table for a given propositional logic statement.
  - a. Exercise 1.2.4
2. Translate an English sentence into an appropriate propositional logic statement using provided variables.
  - a. Exercises 1.2.2 and 1.2.7
  - b. Exercises 1.3.5, 1.3.7, 1.3.8, 1.3.9
3. Write a meaningful negation (in English) of a provided proposition.
  - a. Exercise 1.1.1
4. Given a valid implication statement (in English), identify the converse, contrapositive, inverse and/or negation of the statement (in English).
  - a. Exercises 1.3.2 and 1.3.3 .
5. Determine if a provided predicate statement is true or false. When appropriate, give an example to prove your assertion.
  - a. Exercise 1.6.2
6. Translate English statements into logical predicate expressions with the same meaning.
  - a. Exercises 1.7.2, 1.7.3, 1.7.4, 1.7.5
7. Translate English statements into their meaningful negation using De Morgan's laws.
  - a. Exercises 1.8.1, 1.8.2, 1.8.3