CS 7349
Data and Network Security
Quiz #1

This is a quiz assignment for CS7349, Data and Network Security. This quiz is due at the end of the synchronous class period in which the unit is discussed or whenever the instructor tells you to hand it in; whichever comes first. Enter your answer to each question in the CS 7349 Quiz Answer Sheet PDF document. Be sure to place your name and due date in the Quiz Answer Sheet and place your last name and the unit number at the beginning of the file name. For example, the filename for the quiz answer sheet for Quiz #1 for John Doe should be *Doe01CS7349QuizAnswerSheet.pdf*.

For each multiple-choice question, in the Quiz Answer Sheet state the letter of your chosen answer and write out the explanation why the answer is correct. Note that the explanation involves also explaining why the other answers are not correct. Failure to address ALL options will result in a 0 for this assignment.

For each short answer question, in the Quiz Answer Sheet state your answer to the question and then write out at least a one paragraph explanation why the answer is correct.

Your answer pdf document should be submitted on the appropriate Canvas location.

1) What is the one word that defines the foundations of cyber security?
2) What defines 'security' for a particular location?
3) Name the five key objectives for computer security.
4) Name at least five security mechanisms.
5) Identify two passive attacks.
6) Identify at least three active attacks.
7) In the design of a computer network, what is the undamental design approach used to manage the system complexity?
8) What types of attacks are likely to occur over a computer network? Where within the network will these attacks occur?
9) What security mechanisms are appropriate for use in a computer network? Where are they most likely to be used?
10) Give at least three reasons why security is a problem in the cyber world today.