**CSC 360 Homework 4**

Posted on Oct. 2, 2020 Due one: Oct.15, 2020

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Download this Word file and insert your answer in the same word document, then upload the Word file to** [**Canvas**](https://uncw.instructure.com/login/ldap)

1. (End of Chapter 4, Exercise 1, page 138)

**Remove lambda rules from the following grammar**. Your answer must include the NULL set.

1. (End of Chapter 4, Exercise 9, page 138)

**Remove chain rules** **from the following grammar**. Your answer must include the CHAIN(S), CHAIN(A), CHAIN(B), and CHAIN(C).

1. (End of Chapter 4, Exercise 14, page 139)

**Remove useless symbols from the following grammar.** Your answer must include the TERM and REACH sets.

1. (End of Chapter 4, Exercise 18, page 140)

**Convert the following grammar into Chomsky Normal Form**

1. (End of Chapter 4, Exercise 29, page 141)

**Transform the following grammar to a grammar without left-recursive rules**.