Midterm Info

Date: Monday, March 12, 2018, 05:30 - 06:45 p.m.

- This is a closed book exam; only 1 sheet of notes (handwritten) is permitted.
- You will have 75 minutes for this exam.
- It will consist of *k* questions worth *x* points each, plus a question *k+1* for extra credit.
- The extra credit will be recorded separately, so make sure you have answered first k questions correctly before moving on to question k+1.
- All questions will be taken from the following list of templates.
 - 1. For a given NFA construct an equivalent DFA.
 - 2. Convert a given regular expression to an equivalent NFA.
 - 3. Convert a given DFA to an equivalent regular expression.
 - 4. For a given language either prove that it is not regular or give a regular expression describing it (or DFA (NFA) recognizing it).
 - 5. Convert a given CFG into an equivalent CFG in Chomsky normal form.
 - 6. Convert a given CFG to an equivalent PDA.
 - 7. Convert a given PDA to an equivalent CFG.
 - 8. For a given CFL give a CFG describing it or a PDA recognizing it.