Content of CpSc3500

Based on Text: Introducing the Theory of Computation
Goddard

- ***Regular languages.*** Chapters 1–4

- ***Context-free languages.*** Chapters 6–9 except omitting

    - proof that PDAs and CFGs are equivalent
    - how to convert to Chomsky Normal Form

- ***Turing Machines and recursive/r.e. languages.*** Chapters 11–13

- ***Undecidability.*** Chapters 14–15 except omitting

    - proof that Totality for context-free is undecidable
    - Post's correspondence problem

- ***P and NP.*** overview of Chapters 17 and 19