Office Hours. Variable. See website.

Content.
- Regular Expressions and Finite Automata
- Grammars and Pushdown Automata
- Turing Machines and Undecidability
- Brief Overview of Complexity

Goals/Learning Outcomes.
- Design a finite automaton or regular expression for a given language.
- Convert among notations for a given regular language.
- Design a context-free grammar, pushdown automaton, or Turing Machine for a given language.
- Explain the Church-Turing thesis and its significance.
- Explain why the Halting Problem has no algorithmic solution.
- Define the classes P and NP and explain the significance of NP-completeness.

Grade. The grade is determined as follows. First, a class-grade \( G \) is obtained as a weighted average:
Assignments: 35\%, Quizzes: 15\%, Testlets: 50\%,
The overall numerical grade is the maximum of \( .75G + .25F \) and \( .97G + .03F \) where \( F \) is grade on the final. The cut-off for an A will be 89.50; the cut-off for a B will be 80.00; the cut-off for a C will be 70.00. (Grades are calculated to two decimal places.)

Assignments/Homework. Unless otherwise specified, these are individual, and must be strictly your own work and are not to be shown to anyone else.

Logistics. See separate hand-out for logistics.

Books and Notes and Handouts. Somewhat suggested book: Goddard: Introducing the theory of computation. Many handouts will be archived at people.cs.clemson.edu/~goddard/handouts/cpsc3500. Some will be placed on Canvas.

For more rules and regulations, see separate hand-out.