

University of Nevada, Las Vegas Computer Science 456/656 Fall 2022

Schedule of Homework and Tests Fall 2022

Assignment 0. Watch the video <https://www.youtube.com/watch?v=HeQX2HjkcNo> which is 34 minutes long. It presents important topics we will cover this semester. Please watch the video before the August 31 class.

Monday August 29. First day of class, in room TBE B172.

Wednesday August 31. Class.

Monday September 5. Labor Day recess. No class.

I expect you to have watched the video by class time September 7. Don't worry if you have trouble absorbing it all. We'll go over the important parts of the video in lectures.

Friday September 9. Class. Assignment 1 due. Turn it in to the grader or teaching assistant. Since no grader or teaching assistant has been assigned yet, you will get instructions later.

Monday September 12. Class.

Wednesday September 14. Class. **Friday September 16.** Assignment 2 due. Turn it in to the grader or teaching assistant by midnight.

Monday September 19. Class.

Friday September 23. Class. Assignment 3 due. Submit to Canvas by midnight.

Monday September 26. Class.

Wednesday September 28. First Examination. Topics will include:¹

- Some true-false-open questions.

- Countable and uncountable sets.

- Alphabets, strings, languages.

- Problems and languages.

- Abstract machines.

- Regular languages.

- State diagrams of finite automata.

- Minimization of deterministic finite automata.

- State the pumping lemma for regular languages.

- Regular expressions.

- Inclusion of Classes.

- Context-free grammars.

- Push-down automata.

- Equivalence of deterministic and non-deterministic finite automata.

- One very easy multiple-choice question about P, NP, etc.

Monday October 3. Class.

Wednesday October 5. Class.

Monday October 10. Class.

Wednesday October 12. Class.

Friday October 14. Assignment 4 due.

Monday October 17. Class.

Wednesday October 19. Class. Assignment 5 due.

¹List may be updated

Monday October 24. Class.

Wednesday October 26. Second Examination. Topics will include

Monday October 31. Class.

Wednesday November 2. Class.

Monday November 7. Class.

Wednesday November 9. Class. Assignment 6 due.

Monday November 14. Class.

Wednesday November 16. Class. Assignment 7 due.

Monday November 21. Class.

Wednesday November 23. Third Examination. Topics will include

Wednesday December 14. Final Examination.