CS 5313: Formal Language Theory  Fall 2022
Course Information  (Last Revised on August 25, 2022)

1. General Information

Instructor: H. K. Dai
Teaching Assistant: V. Puram

<table>
<thead>
<tr>
<th>Office Location:</th>
<th>Room 209</th>
<th>Room 204</th>
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<tbody>
<tr>
<td>Mathematics, Statistics, and Computer Science Building</td>
<td></td>
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<tr>
<td>Office Hours:</td>
<td>Monday/Wednesday 10:30 - 11:30</td>
<td>Tuesday/Thursday 9:00 - 10:00</td>
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<td>(or by appointment)</td>
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<tr>
<td>Office Phone:</td>
<td>744-7207</td>
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</tr>
<tr>
<td>email Address:</td>
<td><a href="mailto:dai@cs.okstate.edu">dai@cs.okstate.edu</a></td>
<td><a href="mailto:vpuram@okstate.edu">vpuram@okstate.edu</a></td>
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2. Course Description in Current University Catalog


3. Course Goals

The main goal of the course is to introduce abstract formal models of computational devices, and an appreciation for the powers and limitations of such formalisms. A secondary goal is to present a body of facts about and techniques for studying “classical” models, such as finite automata, context-free grammars, pushdown automata, and Turing machines, having important applications in a variety of other areas of computer science.

4. Course Materials and References

3. Lecture notes (sketchy): from course instructor.

5. Course Website (Class-Streaming and Recording-Videos When Needed)

Our course Website is maintained on the campus-wide online learning system Canvas, which can be accessed through “https://canvas.okstate.edu”.

Since the information in our class pages will be constantly updated, please check in Canvas regularly (Announcements, Assignments, Conferences, Modules, etc.).

General notes:

1. All class materials (announcements, assignments, etc.) will be disseminated on Canvas.

6. Homework and Examinations

There will be about 5-6 homework assignments, a few \( q \), where \( 0 \leq q \leq 8 \) unannounced quizzes, one test, and one final examination.

7. Course Grade

The course grade is based on the homeworks and unannounced quizzes \( (45 - q)\% \) on homeworks and \( q\% \) on quizzes \( ] \), test (20%), and final examination (35%). The passing letter-grade is determined by the following partition of the course grades:

\[
D : [50, 60); C : [60, 70); B : [70, 85); and A : [85, 100] 
\]
8. Miscellaneous

1. **Lectures**: Lectures are not mandatory, but historically, students with active attendance/coursework have done significantly better on examinations than their less frequently attending classmates.

2. **Homework**: Problem sets form an important part of the learning in the course, and thus, you are required to do them in order to pass.

3. **Collaboration and Sharing**: You are encouraged to discuss approaches with other students on solutions of assigned coursework, but you must write up solutions on your own independently and acknowledge your source in the write-up for each problem. If you obtain a solution with help (e.g., through library or publicly available work, or academic work by other students — whether in this or previous semesters), acknowledge your source, and write up the solution on your own.

   **Notes**: Read relevant documents/guidelines about academic integrity at Oklahoma State University in Academic Integrity Resources at the following URL: https://academicaffairs.okstate.edu/academic-integrity/index.html

8. **Student Disability Services**

Student Disability Services and other Student Services are committed to providing support services to students with physical and learning disabilities. Please advise the instructor of desired academic accommodations, and notify Student Disability Services.

10. **Academic Dishonesty or Misconduct**

Refer to the section in “University Academic Regulations” in current “University Catalog and Degree Programs” (http://registrar.okstate.edu/)

11. **Adding/Dropping/Withdrawing, Important Dates, and Syllabus Attachment**

1. **Test and Final Examination**: Tentative date for the test is held in the week of October 10 – 14, 2022.

   Adopting “Fall 2022 Final Exam Schedule”, the firm time/date for final examination is 8:00 – 9:50 am, December 14 (Wednesday), 2022 in regular class meeting place.

   Refer to the section in “Fall 2022 Final Exams”:
   https://registrar.okstate.edu/class_schedule_short_courses/exams.html

2. **Adding/Dropping/Withdrawing and Important Dates**: Refer to the section in “Academic Calendar”:
   http://registrar.okstate.edu/

3. **Syllabus Attachment**: Refer to:
   https://academicaffairs.okstate.edu/student-support/index.html