CS 3613: Theoretical Foundations of Computing  
Spring 2020
Course Information  (Last Revised on January 13, 2020)

1. General Information

<table>
<thead>
<tr>
<th>Instructor: H. K. Dai</th>
<th>Teaching Assistant:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Location: Mathematics, Statistics, and Computer Science Building</td>
<td></td>
</tr>
<tr>
<td>Room 209</td>
<td></td>
</tr>
<tr>
<td>Office Hours: Monday/Wednesday Noon – 1:00</td>
<td></td>
</tr>
<tr>
<td>(or by appointment)</td>
<td></td>
</tr>
<tr>
<td>Office Phone: 744-7207</td>
<td></td>
</tr>
<tr>
<td>email Address: <a href="mailto:dai@cs.okstate.edu">dai@cs.okstate.edu</a></td>
<td></td>
</tr>
</tbody>
</table>

2. Course Description in Current University Catalog


3. Course Goals

The goal of CS 3613 is to give students an ability to develop and rigorously reason about abstract formal models of computations, and to learn the powers and limitations of such formalism. “Classical” models, such as finite automata / regular expressions, pushdown automata / context-free grammars, and Turing machines will be studied in depth.

4. Course Materials and References


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


5. Homework and Examinations

There will be about 5-6 homework assignments, a few unannounced quizzes, one test, and one final examination.

6. Course Grade

The course grade is based on the homework (30%), unannounced quizzes (10%) and test (25%), 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]

7. Miscellaneous

1. Lectures: Lectures are not mandatory, but historically, students with active attendance 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: You are encouraged to collaborate in study groups on the solution of the homework. If you do collaborate you must write up solutions on your own and acknowledge your collaboration in the write-up for each problem. If you obtain a solution with help (e.g., through library work, another student, etc.), acknowledge your source, and write up the solution on your own.
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.

9. Academic Dishonesty or Misconduct
Refer to the section in “University Academic Regulations” in current “University Catalog” (http://registrar.okstate.edu/)

10. Adding/Dropping/Withdrawing, Important Dates, and Syllabus Attachment

1. Test and Final Examination: Tentative date for the test is March 5 (Thursday), 2020.
   Adopting “Spring 2020 Final Exam Schedule”, the firm time/date for final examination is 10:00 – 11:50 am, May 7 (Thursday), 2020 in regular class meeting place.
   Refer to the section in “Spring 2020 Final Exams”:
   http://registrar.okstate.edu/Exams

2. Adding/Dropping/Withdrawing and Important Dates: Refer to the section in “Current Syllabus Attachment”:
   http://registrar.okstate.edu/

3. Syllabus Attachment: Refer to:
   http://academicaffairs.okstate.edu/content/resources-students