0. Class Meeting Times/Places

1. Lecture: Monday/Wednesday 02:30 – 03:45 pm; Classroom Building, Room 203

1. General Information

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

2. Course Description in Current University Catalog

CS 3353: Data Structures and Algorithm Analysis I. Prerequisites: CS 2133 (Computer Science II) and CS 3653 (Discrete Mathematics for Computer Science). Storage, structures, data and information structures, list processing, trees and tree processing, graphs and graph processing, searching, and sorting.

3. Course Goals

Study of analysis and implementation of data structures and algorithms. Basic techniques for asymptotic analysis of algorithm-time bounds. Fundamental and advanced data structures. Basic algorithm-design techniques such as divide-and-conquer, dynamic programming, and greedy techniques for optimization. Applications of these design and analysis techniques to fundamental problems such as sorting, searching, and graph algorithms.

4. Course Materials/References


5. Course Website and Lecture Notes

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, Modules, etc.).

General notes:

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

6. Homework and Examinations

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

7. Course Grade

The course grade is based on the homeworks and unannounced quizzes [(40 – q)% on homeworks and q% on quizzes], 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]
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

9. **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” (http://registrar.okstate.edu/)

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

   1. **Test and Final Examination**: Tentative date for the test is February 28 (Monday), 2022.
      
      Adopting “Spring 2022 Final Exam Schedule”, the firm time/date for final examination is 2:00 – 3:50 pm, May 2 (Monday), 2022 in regular class meeting place.
      
      Refer to the section in “Spring 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