CS 3112
Analysis of Algorithms

Summer 2019
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Cal State LA
Introduction

• Jung Soo (Soo) Lim
• Call me Soo.
• If that’s too informal for you, you can call me “Instructor”

• jlim34@calstatela.edu

• Office hours
  1. Tue/Thu : 10:00 AM – 11:30 AM at E&T A310
  2. Tue/Thu : 3:30 PM – 4:30 PM at E&T A310
  3. By appointment
CS 3112

- **CS 3112: Analysis of Algorithm** is a required course in CS major.
- During the lab, we will implement the algorithms covered in the class, solve rigorous problems, and design new algorithms based on the algorithms/data structures that we learned in class.
Course Web Page

- https://csns.calstatela.edu/site/x19/cs3112-1
- Course schedule and syllabus
- Lecture notes
- Assignments
- Sample code
Grading

- Grading: A, B, C, (with + and -), NC.
- Grading Policy
  - Attendance 10%
  - Quizzes: 10%
  - Midterms (two midterms): 40%
  - Final: 40%

- Grading scale
  
<table>
<thead>
<tr>
<th>Grade</th>
<th>Score</th>
</tr>
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<tbody>
<tr>
<td>A-, A</td>
<td>90 – 100</td>
</tr>
<tr>
<td>B-, B, B+</td>
<td>80 – 89</td>
</tr>
<tr>
<td>C-, C, C+</td>
<td>65 – 79</td>
</tr>
<tr>
<td>D, F</td>
<td>&lt;65</td>
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- If you don’t get at least a C (undergraduate) or B (graduate), you get an “I” for incomplete.
Laboratory Assignments

- Each lab you
  - May have one or two programming assignment(s),
  - May required to solve rigorous problems,
  - May design new algorithms, which will re-enforce what you learned,
- Also, lab assignments can be sample quizzes, midterm exams, or final exam.
- If you can solve sample questions in the lab assignments, you can solve most of the questions on the exams.
- Although your lab assignments will not be graded, all your lab assignments must be uploaded to CSNS.
- I will review your lab assignments.
Laboratory Assignments - 2

- Only work uploaded to CSNS will be reviewed.
- All other works not uploaded to CSNS will not be reviewed. (i.e. e-mail, bring them to me directly, etc.)
- Based on the quality of work, extra credit of 10% will be added to your final grade.
- If you have not previously used CSNS, go to csns.calstatela.edu and login using your CIN as both username and password. Change your password. Let me know immediately if you have any difficulties with this.
- If you don’t have a logon to the school network, get one from the IT staff in the library right after this class.
Quizzes

- We will have a quiz at the end of each class.
- Quizzes will consist of multiple choice, short answers, and one-paragraph writing questions.
- Quizzes will be closed-book and closed-note.
Exams

- Two midterm exams, one final exam
- Midterm exam and final exam are closed-book, closed-note, and closed-Internet.
- **No make up exam!**
- No make up quiz!
- No make up midterm exams!
- No make up final exam!
Textbook

- Introduction to Algorithms 3rd addition
  by: Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein

- The textbook is absolutely required
Cheating

- Cheating will not be tolerated in any circumstance!
- You may not copy code from other students or allow anyone to copy your code.
- I will punish all students involved in copying equally, even if it’s obvious who copied from whom.
- You may not copy text from any source and use it as an answer to any problem in this class.
- You may refer to the published solutions to the textbook exercises. However, you should understand the solution in order to solve assignment questions and exam questions.
- Although the questions in the exams are similar to textbook exercises, they are not exactly same.
- **Thus, you will have to understand the algorithm to solve the questions!**