CSE 121
Elba Garza
Winter 2023

Join at
slido.com
#1476 967
Announcements, Reminders

• [Final Exam web page](#) on class website
  • Exam: March 14th at 12:30 - 2:20 PM in KNE 110 & KNE 130
  • [Review Session](#):
    Monday 1:30 - 3:30 PM at SAV 260
Announcements, Reminders

• **Programming Assignment 3** due tonight at 11:59 PM

• **Resubmission Form** for R7 out; due March 14\(^{th}\) at 11:59 PM

• Quiz Grading: Q1 Retakes will come out **tonight**—Ed announcements as always!

• Course evaluations out; please fill out! 😢

Come meet Gigi on Monday 3/13 from 1 PM to 3 PM by the Drumheller Fountain!
Thank your TAs!
Learning Objectives

or, “What did I learn in this class?”

1. **Computational Thinking** Create an algorithm to solve a given problem and express that algorithm in a structured way (e.g. pseudocode)

2. **Comprehension** Trace and predict the behavior of programs and systems

3. **Code Writing** Write functionally correct Java programs that meet a provided specification using control structures, primitive data types, and basic data abstractions

4. **Communication** Clearly and effectively describe the behavior of a given code snippet

5. **Debugging** Identify errors in a method’s behavior & implement fixes for identified errors

6. **Decomposition** Solve problems by breaking them into subproblems and recombining the solutions using techniques such as methods

7. **Ethics/Impact** Describe ethical and sociotechnical issues related to software and technology and explain how their choices as programmers can impact those issues
Digression: Macarons!
You made some pretty cool crafts yourself!
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Applications of CS

or “What can I do with what I learned?”

• Detect and prevent toxicity online
• Digitize basketball players
• Help DHH people identify sounds
• Figure out how to best distribute relief funds
• Recognize disinformation online
• Make movies
• Improve digital collaboration
• Fix Olympic badminton & Identify cheating in chess
• And so much more!
Future Courses

or “What can I do next?”

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<th>Course</th>
<th>Overview</th>
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<tr>
<td>CSE 311</td>
<td>Mathematical foundations</td>
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<tr>
<td>CSE 351</td>
<td>Low-level computer organization/abstraction 😊</td>
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<td>CSE 331</td>
<td>Software design/implementation</td>
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<td>CSE 341</td>
<td>Programming languages</td>
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<td>CSE 340</td>
<td>Interaction programming</td>
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<tr>
<th>Course</th>
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<tr>
<td>CSE 154</td>
<td>Intro. to web programming (several languages)</td>
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<td>CSE 163</td>
<td>Intermediate programming, data analysis (Python)</td>
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<td>CSE 180</td>
<td>Introduction to data science (Python)</td>
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<td>CSE 373</td>
<td>Data structures and algorithms (non-majors)</td>
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<td>CSE 374</td>
<td>Low-level programming and tools (C/C++)</td>
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<tr>
<td>CSE 416</td>
<td>Intro. to Machine Learning</td>
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Wrap-Up – Winter 2023
Frequently Asked Questions

• How can I get better at programming?
  • Practice!

• How can I learn to X?
  • Search online, read books, look at examples :)

• What should I work on next?
  • Anything you can think of! (Here are some ideas)
  • Beware: it’s hard to tell what’s easy and what’s hard.

• Should I learn another language? Which one?
  • That depends–what do you want to do?

• What’s the best programming language?
  • 😠 (take CSE 341)
Thank you!

Ask Me (Almost) Anything!