

The background features three vertical stripes on the left side: a wide light red stripe, a narrower teal stripe, and a narrow light beige stripe. The rest of the background is white, with a pattern of small, light red dots arranged in a grid that tapers off towards the right edge.

CSC-151

Friday August 29

Fall 2025



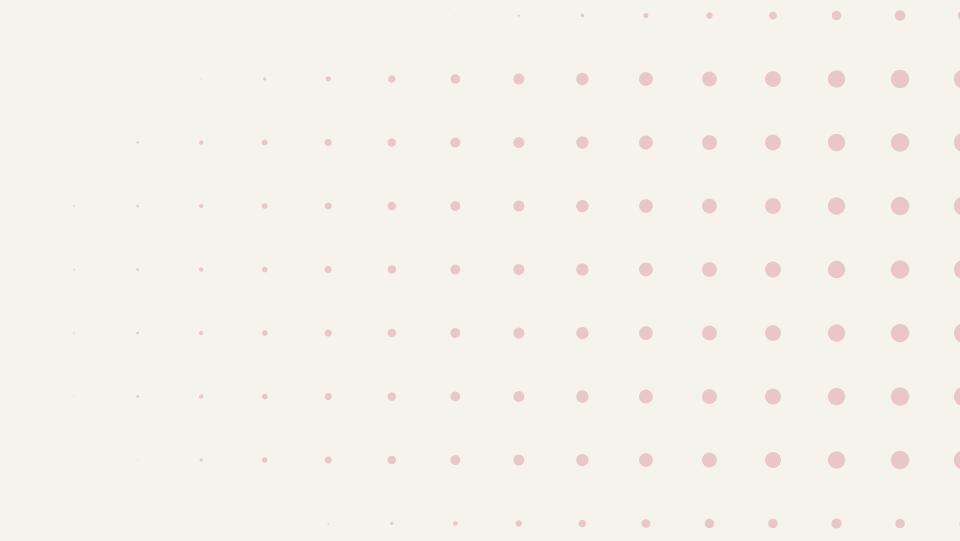
WELCOME!

I'm so happy you're here!





AGENDA

- 1. Introductions**
 - 2. What is Computer Science?**
 - 3. Website Tour**
 - 4. An everyday algorithm**
 - 5. Wrap Up**
- 
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Introductions

Please make a name card

- Name
- Pronouns (optional)

With the person sitting next to you :

1. You can call me _____
2. This is my _____ day/year at Grinnell College!
3. My pronouns are _____
4. One of my favorite foods is _____



Website Tour

<https://eikmeier.sites.grinnell.edu/csc-151-fall-2025/schedule/>







Discussion

Think - pair – share

We follow a *think, pair, share* model for many discussions in this class. I will ask you one or more questions and then you will:




Think about the question yourself and try to come up with an answer.




Discuss your idea with your neighbor(s) and try to reach agreement.

Include anyone near you who looks like they don't have a neighbor to talk to!



Be prepared to share your answer/thoughts when I call on you





Discussion



1 What is computer science?



Discussion

1 What is computer science?

Computer Science studies **algorithmic processes** that describe and transform **information**.

An Algorithm:

A sequence of instructions for solving a problem

Information:

Artifacts that contain information (DNA, files, etc.)

Organization is an important factor (lists, outline, table, etc.)



An Everyday Algorithm

2

With your partner or small group, write an algorithm to make a peanut butter and jelly sandwich.



Semester-long research study

- Weekly Questionnaire, mostly multiple choice
 1. The assignment is called "Weekly Questionnaire X: Month Start-End"
 2. For example, the first one is "Weekly Questionnaire 1: August 25-31"
 - Should take 5-10 minutes most weeks, a bit longer the first week
 - IRB approved
 - Each Week is Monday-Sunday, please fill out the survey over the weekend
 - The survey is completely **Optional**, however we would like you to participate
 - Goals:
 1. Determine how students spend their time, and which topics are harder/easier.
 2. Investigate correlations (time spent vs grade, how students feel vs their performance, etc)
 3. Investigate the (potential) time burden of Mastery Learning
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DON'T FORGET...

- There are 3 readings to complete before class on Wednesday.
- Submit your reading responses on Gradescope *the evening before by 10:30pm.*
- Complete the intro survey on Gradescope before Wednesday
- Complete the weekly research questionnaire this weekend.