Road map

What’s it all about?

Course Topics

Policies & grades

Academic honesty

Help & advice
What’s it all about?
What CS 211 is all about (1/2)

From the course abstract:
What CS 211 is all about (1/2)

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- *CS 211 teaches foundational software design skills at a small-to-medium scale.*
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What CS 211 is all about (2/2)

From the course abstract:

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- *In the first half, you’ll learn the basics of imperative programming and manual memory management using the C programming language.* This will help you form connections between the high-level programming concepts you learned in CS 111 and the low-level machine concepts you will learn in CS 213.

- *In the second half, we’ll transition to C++, which provides abstraction mechanisms such as classes and templates that we use to express our design ideas.*
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- Topics include...
Course Topics
Topics

- Language mechanisms
- Design techniques
- Engineering practices
Topics

- Language mechanisms
  - New syntax for functional programming

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Topics

- Language mechanisms
  - New syntax for functional programming: expressions, values, conditionals, variables, functions

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    - Statements: sequencing, iteration
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- Engineering practices
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  - Debugging: to see what’s happening in memory
  - The Unix shell: a compositional user interface
Policies & grades
Grade composition

what           %    when     #
programming homeworks  75*  Tuesdays   6

* Divided equally.
## Grade composition

<table>
<thead>
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<th>what</th>
<th>%</th>
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Homework policies

- Some will be done on your own
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- Some will be done on your own
- Most will be pair-programmed with a registered partner

Don't be late
You'll need to do a self-evaluation for each
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- Some will be done on your own
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- You’ll need to do a self evaluation for each
- No cheating...
Academic honesty
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In CS 211, we take cheating very seriously.
Academic honesty

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- Cheating is when you:
  - Share (give or receive) homework code with anyone who is neither course staff nor your official, registered partner
  - Obtain code from an outsider resource, such as Stack Overflow

- Please don’t do these things, because:
  - If you don’t write code, you won’t learn; try to embrace the struggle!
  - All cheating will be reported to the relevant dean for investigation

- If unsure about your particular situation, ask the instructor or other course staff
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- Be kind to each other.
I try not to make fun of people for admitting they don't know things. Because for each thing "everyone knows" by the time they're adults, every day there are, on average, 10,000 people in the US hearing about it for the first time.

\[
\text{Fraction who have heard of it at birth} = 0\% \\
\text{Fraction who have heard of it by 30} \approx 100\% \\
\text{US birth rate} \approx 4,000,000/\text{year} \\
\text{Number hearing about it for the first time} \approx 10,000/\text{day}
\]

If I make fun of people, I train them not to tell me when they have those moments. And I miss out on the fun.

"Diet Coke and Mentos thing"? What's that?

Oh man! Come on, we're going to the grocery store.

Why?

You're one of today's lucky 10,000.
Relative homework difficulties

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(On a scale from 1 to 10)
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*But really it's up to you*
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