

Lecture 01: Welcome to CS298: Teaching Introductory Computer Science

CS298 / EDUC298

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Stanford University

Computer Science Department

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Lecture 01: Welcome to CS298: Teaching Introductory Computer Science

- I'm Chris Gregg (cgregg@stanford.edu)
 - Electrical Engineering undergrad Johns Hopkins, Master's of Education, Harvard, Ph.D. in Computer Engineering, University of Virginia
 - Lecturer in CS, teaching CS 106B/X, CS 107/107E, CS208E, CS 110
 - At Stanford since 2016, at Tufts prior, and high school teaching prior to that.
 - I taught high school physics (and a bit of CS) for about seven years
 - This gave me a *lot* of time in the classroom
 - I have taught college CS courses since graduate school
 - I have taught students aged 8 through 68
 - I love teaching, and can't think of a better job



Lecture 01: Welcome to CS298: Teaching Introductory Computer Science

- **What is this class all about?**
 - We will learn the nuts and bolts of teaching an introductory computer science course
 - Topics:
 - Introduction and Motivation to teach computer science
 - Know Your Students, Know Your Subject, Know Your Tools
 - Planning Your Course and Creating Awesome Assignments
 - Lectures
 - Grading
 - Online Resources
 - Observing Others Teach, and Reflecting on Your Own Teaching, and Handling Feedback
 - Staying Current on and Contributing to CS Education Research
 - Interaction with Students: Office Hours, Meetings, Advising, and Writing Recommendation Letters
 - Choose Your Battles, and Have Fun!



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- **Logistics**

- The primary resource will be the class reader, *Your First Year Teaching Computer Science*.
- There will be weekly readings, and then class will be a mix of discussions and student presentations
- The workload will be commensurate with a 1-unit seminar. I would like you to get some experience with developing course material, but you won't be designing an entire course.
- At the end of the seminar, you should have the tools you need to develop your own CS course



Lecture 01: The First Day of Class

- **Planning for the First Day of Class**

- You are all sitting in class right now, ready to learn.
- But...what did I have to do to prepare for today?
- Have you ever considered what a teacher has to do for the first day, the second day, or for the entire term?



Lecture 01: Motivation for Teaching Computer Science

- **Who motivated you?**
 - We all have favorite teachers in our past -- who was a favorite of yours, and what did they do that motivated you?
 - We also have teachers we didn't particularly enjoy -- why is that?
- **Why do you want to teach computer science?**
 - What is it about teaching that excites you?
 - What are you worried about?
 - What CS course(s) do you want to teach, and why?



Assignment 1 – Due Tuesday, April 8th, in class

- Write down a few paragraphs about your favorite teacher you've ever had.
 - Focus on what they did that made their class great
 - e.g., was it their organization? Was it their style? Were they funny? Were they thoughtful?
 - Write down some thoughts on what kind of teacher *you* want to be (or are already). How would you define your own style?
- If you can, reach out to that teacher to tell them how much you appreciate what they did for you!

