

Computer Programming II

CS196 - Lecture 1

Instructor: Dr. V



Rules for Class Interaction

1. 🕒 Please be on time.
2. 💬 Jump in with comments/questions.
3. 📧 Pay attention to your email.
4. ✉ Email me if you have any questions.
 - include CS196-1, CS196-2, or CS196-3 in subject
5. 💻 Bring your laptop to every class, unless explicitly told otherwise.
6. 🤒 PLEASE wear a mask if you have
 - sore throat or cough
 - sneezing or runny nose(ask me for a mask if you do not have one)

Personal laptops

- You must have a personal laptop for CS courses
 - though there may be a way to use a phone/tablet instead
- If you cannot afford a laptop, you can borrow one from the library, and there should be laptops available in the lab
- If you need laptop recommendations (specific to your budget), just ask
- If your laptop is a chromebook, you can still use it
 - <https://www.youtube.com/watch?v=GAMqfTqcGFC>
- If you have a laptop, but it's old/slow, you should be able to install Chrome OS or Linux on it to make it faster
 - <https://www.youtube.com/watch?v=72E31pfv8to>
 - <https://www.youtube.com/watch?v=W-RFY4LQ6oE>

About the Instructor

Dr. Veksler (Dr. V)

WER218; vveksler@caldwell.edu

Office Hours:

<https://calendar.app.google/HfDU5RobsgnjqPC7>

Engineer, Research Scientist, Professor

- worked in industry, government, academia, self-employed
- AI and robotics, HCI, data analytics, research on human behavior

I'd love to get to know each of you, but...

- I am bad at remembering names, so please just keep reminding me what your name is
- If I mess up your name, just correct me as many times as it takes
- Keep your name-plate in front of you

CS196

Blackboard

- <https://caldwell.blackboard.com/>

Grading (5-15-40-20-20)

- attendance/participation
- quizzes
- assignments
- midterm
- final project

Code Evaluation

- Submitted code will be evaluated for
 - Correctness
 - Does it work?
 - Does it do what is intended?
 - Are there bugs?
 - Robustness
 - Does the code break upon unexpected input?
 - Readability
 - Make sure your code is indented and spaced out properly
 - Name variables/functions/classes in a meaningful way
 - Follow standard naming conventions
 - Add comments and docstrings

Late submissions

- late assignments will lose 10pts (out of 100) for each week they are late, but will not go lower than 70 (out of 100)
 - 1-7 days late: highest grade = 90
 - 8-14 days late: highest grade = 80
 - >14 days late: highest grade = 70

Cheating

- don't do it. not worth.
- what is considered cheating in this class?
 - it's complicated (if you're not sure, just ask)
 - you're encouraged to look up answers online, but...
 - on quizzes/exams
 - don't look at classmates' answers
 - may have other requirement
 - on assignments
 - don't submit someone else's code
 - if a part of your code was copied, give credit to the source
 - i will have your code checked for plagiarism

Class Structure

- 14 weeks of classes
- each week:
 - lecture
 - quiz based on lecture
 - practicum
 - technical tips, interactive time to work on your assignments, ask questions, and get feedback

Inclement weather or other class cancellations

- If the school is open, I will be here
- Use your best judgment
- Check school site
- Sign up for notifications
- Check your email

Questions? Comments? Concerns?

Popular coding tools

- Code versioning
 - git
 - svn
 - diff
 - github.com
 - docker

Popular coding tools

- Sharing code
 - `github.com`
 - `gist.github.com`
 - `codeshare.io`
 - `pastebin.com`

Popular coding tools

- Code editor built-in tools and extensions
 - VSCode
 - syntax highlighting
 - auto-indent
 - auto-complete
 - debug points
 - terminal
 - fold/unfold
 - extensions
 - diff
 - git, github

Popular coding tools (python)

- Python REPL in terminal
- Jupyter notebooks
 - in VSCode
 - jupyter.org (online or download and install)
 - google colab (<https://colab.research.google.com/>)

Popular coding tools (python)

- download and install libraries
 - pip (python default package manager); e.g.,
> pip install numpy
- bundle applications from your python code
 - for desktop (Windows, Linux, OS X)
 - pyinstaller
 - for mobile (iOS, Android)
 - buildozer

Coding resources

- `google.com`
- `youtube.com`
- `w3schools.com`
- `stackoverflow.com`
- `github.com`