

ENGR 1330 - COMPUTATIONAL THINKING WITH DATA SCIENCE

INSTRUCTOR: DR. THEODORE CLEVELAND

TEACHING ASSISTANT: FARHANG FORGHANPARAST

Introduction to Labs and Setup

Link to this presentation: <https://3.137.111.182/engr-1330-webroot/1-Lessons/Lesson01/OriginalPowerpoint/ENGR1330-%20LabIntroSlides-2021-1.pdf>

SPRING, 2021

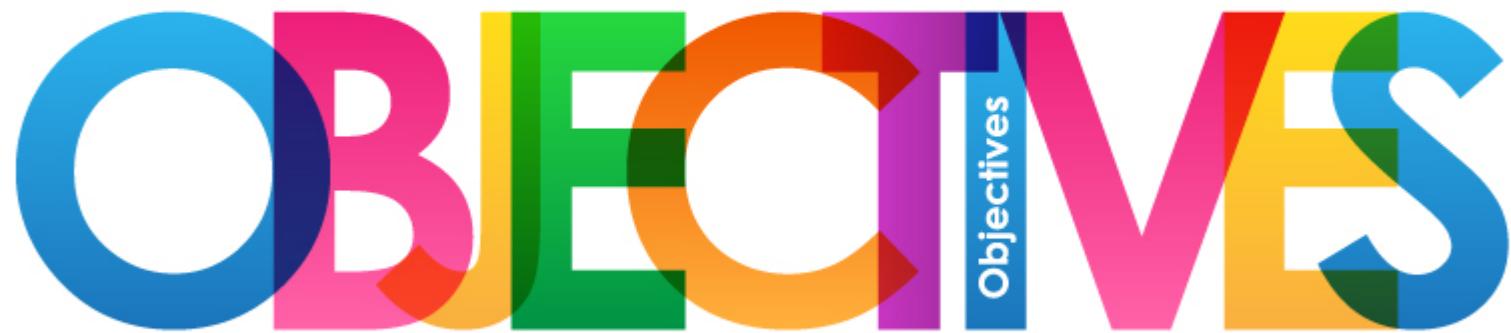
I'm Farhang!

- Full name:
Farhang Forghanparast
- 4th year Ph.D. student in Civil Engineering-Water Resources Management
- Research: Application of machine learning techniques in sustainable management of water resources
- Gaming, movies, writing plays, and photography
- Favorite spots in Lubbock:
Texas Tech campus, Evie Mae's BBQ



Teach them to pronounce "Farhang"!

- An overview
- How the labs will work
- Tips and Warnings



"Do the work, you'll be fine!"

"Really pay attention to the labs and don't be afraid of going to the extra meetings"

"Make sure to ask questions if you have any in class!"

"Google is your best friend. Also complete the labs as soon as possible."

"Don't skip class like a lot of my classmates did, if you attend the lectures you can ask questions and won't risk confusion later on."

What have you heard about this course?

Here are some advice from the ones who were here before you!

"Use office hours with Farhang and learn how to be patient with coding."

"Be disciplined about attending the labs and finishing them early and the class will be straightforward."

"Attend class, and make sure you pay attention. Missing one class can set you back!"

"Be prepared for statistics and data science."

"Take advantage of all the examples and read up on the outside resources that are recommended."

"Really pay attention to the labs and don't be afraid of going to the extra meetings"

Here are some advise
from us !

"The internet has answers, or something close enough to adapt to your problem! "

"A lot of times **you simply** have to tinker to get things done"

"get comfortable with error messages,
they are not value judgements!"

- Dr. Cleveland

"This is unlikely to be your easiest course. BUT everything you need, will be given to you. **Be Active, Ask Questions, and Practice!** More important than the "A" that you will get, will be the mindset that you will take from this."

- Farhang

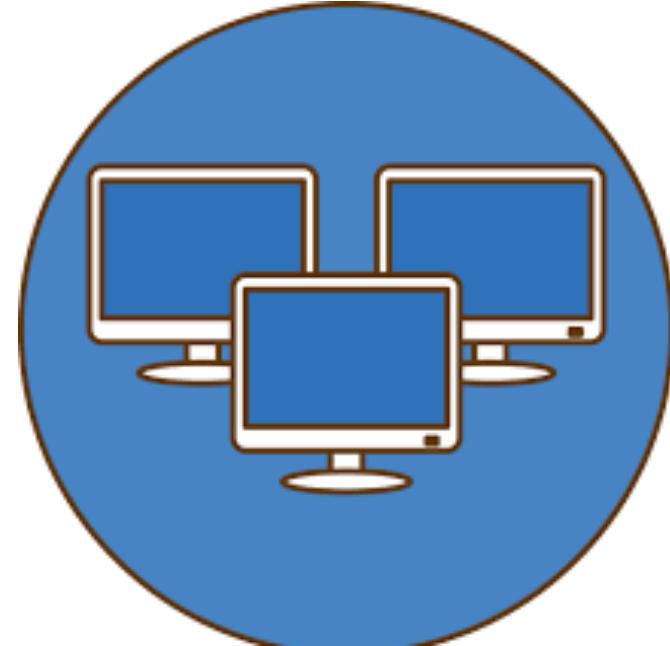
Days and Times

- Lab sessions
 - Tuesdays and Thursdays – 11:30 am until 12:50 pm
 - Shortly after Dr. Cleveland's lectures
- Office hours (Online)
 - Mondays: 9:00 am until 10:00 am
 - Wednesdays: 5:00 pm until 6:00 pm

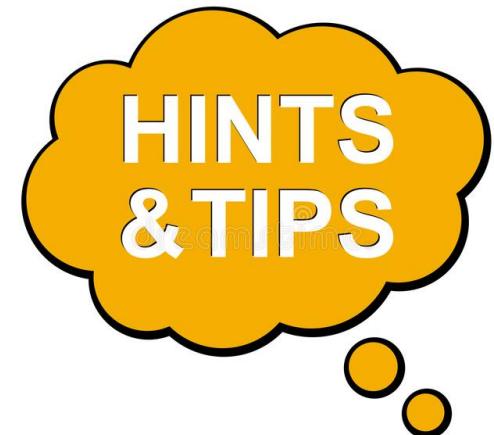


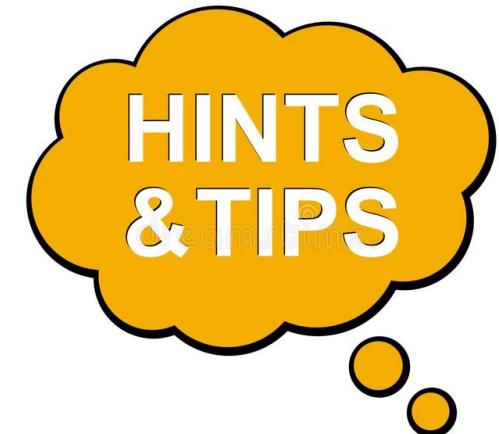
How will the labs work?

- Two sessions per week
 - Follows the lectures
 - Online
 - Requires Jupyter Notebook
 - You should submit the completed lab notebooks on BlackBoard
- One Homework per week
 - Series of exercises based on each week's material
 - Will be given to you as a template notebook
 - You should submit the lab assignment notebooks on BlackBoard
 - You will have 7 days to work on each homework



- Make sure to read the syllabus and pay extra attention to ...
 - The deadlines
 - The exam dates
 - The project dates
- DO NOT miss the deadlines...
 - 50% deduction for late submissions for up to 3 days
 - After 3 days, the submissions will not be graded or scored
 - The solutions will be available on the content server 3 days after the due date.
- **DO NOT leave things for the last minute...**
 - You may realize that you need to ask some questions but it's too late
 - There will be connection issues
 - The servers will be down
- Make sure to use ALL your resources...
 - Lecture and Lab notebooks and videos
 - The extra resources (books, papers, blogs, videos) given to you in the lab
 - Your best friend: GOOGLE!
 - Other search engines as well! – duckduckgo.com





- Collaborating can be good!
 - While in this course, similar to many other engineering practices, working in groups and collaborations are encouraged...
 - **All of you must follow the ethical conduct policy:**
Office of Student Conduct's website: <https://www.depts.ttu.edu/studentconduct/academicinteg.php>
 - If you work together on codes, make sure that you submit your own unique submissions, do not copy and paste someone else's work, and avoid submitting identical documents (e.g., Pdfs. notebooks).
- Spend the time, practice hard and be patient...
 - This is going to be a different learning curve for each one of you- Sometimes smoother and sometimes steeper.
 - Expect and face the challenge. Do not let it overwhelm you. Do not let it scare you.
 - You will not be alone.
- ASK!
 - Ask your questions-
From me, From Dr. Cleveland, From each other
during the lab sessions, during office hours, over email

- You can contact me via this email:

Farhang.forghanparast@ttu.edu



- Come to the office-hour meetings (Twice a week) and discuss your questions and concerns
- We can talk four time a week so you will have plenty of opportunities to ask your questions.

Thank you for your attention...

