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Intro to Python for CS and Data Science

Mark Fontenot, PhD

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WELCOME

• About me...

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BOOKMARKS!

Course Website: https://smu-cs1340.github.io/cs1340-f2020/

Github: https://github.com ... have you made your account yet?

Canvas, of course

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Техтвоок

- Python ZyBooks
 - Interactive learning
 - learn.zybooks.com
 - $\circ \ \ ZyBook\ code\ for\ us:\ {\tt SMUCS1340FontenotFall2020}$
 - Pay and subscribe
- (Optional) Eric Matthes. *Python Crash Course, 2nd edition.* No Starch Press, 2019, ISBN-10: 1-59327-928-0

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EVALUATION

• Final grades determined using standard 10pt scale.

Tool	Percentage
Homeworks and Quizzes	25%
Programming Projects	35%
Final Project	15%
Final Exam	15%
Attendance & Participation	10%

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Homework and Quizzes

- Homework will be mostly related to ZyBooks Exercises
- Quizzes maybe administered in lecture or lab.

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PROGRAMMING PROJECTS

- Learn by doing!
- If you've never programmed before, don't worry! We will guide you!
- 10% bonus credit for submitting 48 hours early.
- Everyone gets one 2-day free extension, no questions asked.
- You need to plan for at least a few hours of work per week outside of lecture and lab

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ATTENDANCE

- You'll need to attend class to be successful.
- I'll talk about things that aren't necessarily in ZyBooks.
- If you're attending virtually:
 - Turn your camera on and microphone off
 - Please be mostly vertical (aka. not in bed)
 - Please be dressed as you would if attending class in person.

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ACADEMIC ETHICS

- You must be prepared to defend any code or assignment that you submit.
- DO NOT ever share your code with anyone. DO NOT, DO NOT, DO NOT!!!
- You are encouraged to talk about the assignments at an abstract level. However, you cannot share your solutions with another student.

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GENERAL COMMENTS

- Wear a face mask at all times
- Try and keep your phone from dominating your attention.
- Don't surf r/memes or other sites that may be distracting to those sitting around you
- Ostentatious yawning is a huge pet peeve...

GETTING SET UP FOR PYTHON

Anaconda

- Anaconda Python is a particular distribution of the language plus bunches of other tools
- Makes it a snap to install on multiple platforms
- Go to https://www.anaconda.com/products/individual, scroll to the bottom, and choose the installer for your platform.
 - More platform-specific instructions: https://docs.anaconda.com/anaconda/install/
- Open Anaconda Navigator to verify it was installed.

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To Do:

- Register for Slack and the #20f-1340-general channel.
 - Add a profile picture!
- Install Anaconda!
- Read Chapter 1 of ZyBooks before Thursday's class. (I'll send out some more specific directions on the various exercises tomorrow.)