

METR 1313 Syllabus, Fall 2014

Contents

1. METR 1313 Syllabus, Fall 2014
 1. Instructors
 2. Class time
 3. Office hours
 4. Hardware recommendations
 5. Topics:
 6. Assessment:
 1. Project Grade Policy
 2. projects:

Instructors

- Primary instructor: Professor Brian Fiedler, ✉ bfiedler@ou.edu, NWC 5636

Class time

- Section 1: 2:00pm-2:50 pm MWF in NWC 5720
- Section 2: 2:00pm-3:15 pm TR in NWC 5720

Office hours

- before and after class
- Sunday 7-9 pm at 🌍 Second Wind Coffeehouse
- Thursday 9-10 pm, at the base of Adams Center (Tower), in or near the 🌍 HLC. (Maybe at the fast food joint next to the HLC ...more empty tables).

Hardware recommendations

At least 90% of past students have completed METR 1313 using their own Hardware.

Topics:

In Fall 2014, we will start from the same place that Harvard University does:

We learn to program scratch. We do this in addition to the official course description.

Here is what was advertised, and approved by the Academic Programs Council:

- Connecting to server, the linux command line, the linux file system, basic linux commands, the linux text editors, offering a file on the WWW.
- A program as a script of sequential linux commands
- Introduction to Python: numerical variables and values, arithmetic, loops, print statements, a simple Python program
- Python data structures: strings, lists, tuples, sets, dictionaries
- control flow, booleans
- searching and sorting
- functions
- modules
- python plotting: matplotlib
- simple python cgi scripts
- arrays and numpy
- working with simple files of data: text files and netCDF files

Assessment:

Letter graded. 7 programming projects, 10 points maximum each. There are no quizzes or tests. There is NO final exam. The final grades might be more lenient than the following scheme, but the grades will not be more restrictive:

- total $\geq 90\%$: A
- $80\% \leq \text{total} < 90\%$: B
- $70\% \leq \text{total} < 80\%$: C
- $60\% \leq \text{total} < 70\%$: D
- total $< 60\%$: F

Note the percentage listed in the above is: $(\text{total points})/70*100\%$

Project Grade Policy


The best way to have your projects graded, and to have the opportunity to achieve the full 10 points, is to demonstrate your program to Professor Fiedler.

Your demonstration can occur during class time or at a help session. (This is the only option

for Project #2). The second best option is to email Professor Fiedler that you have a completed project on the server. Be sure you give complete information about the name of your program, and in which directory the program resides. Some of the projects also require posting graphical output on you personal website. You will build this website on the server.

Projects submitted late (past 11:59pm on the Due Date) will be eligible for at most 1/2 the maximum credit. Projects submitted past the Due Date for the subsequent project will not be eligible to receive any credit.

projects:

1. Project #1 **Friday September 5** scratch
2. Project #2 **Friday September 19**. Complete Exercise 11 in Chapter 3 of interactivepython. To achieve full ten points you need to have a "for loop", unless excused. You should also be able to make small changes in your program, at the suggestion of the instructor. Here are some examples from Spring and Fall of 2013:
 Turtles of METR 1313.
3. Project #3 **Friday October 3** SimpleData
4. Project #4 **Friday October 17** SST
5. Project #5 **Friday October 31** BetterPi
6. Project #6 **Friday November 14** CRUTEM
7. Project #7 **Friday December 5** GriddedData