

STAT 430 - Fall 2020 Syllabus

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Location and Time

- Location: Online
 - Time: Anytime you like!
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Course Staff

Instructor

- Name: Ha Khanh Nguyen
- Email: hknguyen@illinois.edu (mailto:hknguyen@illinois.edu)
- Office: CAB 70.
- Office Hours: 9:00 AM - 11:00 AM Wednesday on Zoom (<https://illinois.zoom.us/j/94059356161?pwd=TUEvNWJlbklvVEZKSDV3LzBqc3IxQT09>).

TA

- Abhishek Ojha
 - ojha4@illinois.edu (mailto:ojha4@illinois.edu)
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Getting Help in STAT 430

You have many options to get help for this class:

- Piazza (piazza.com/illinois/fall2020/stat430hn) - discussion forum, you can post question either in public or private mode (only instructor can view it).
- Email me at hknguyen@illinois.edu (<mailto:hknguyen@illinois.edu>) from **your Illinois email account** (@illinois.edu). I will not respond to a non-Illinois email account. Make sure your email title follows the format: **[STAT 430] <title>**. You can expect a response from me within 24 hours if your email follows the correct format. Otherwise, you will still get a response but likely much later.
- Office hours - you can go to my office hours as described above.

Course Content

This course provides the foundation for programming and conducting statistical analysis in Python. In the first part of the course, we focus on introducing the fundamental elements of Python assuming students have little to no experience in programming. Next, we will get used to Git and Docker. Finally, we will dive into how to conduct real-world statistical analysis in Python using applications in social network analysis, machine learning, etc. as examples.

Textbooks

- **Required:** Python for Data Analysis, 2nd Ed (<https://www.oreilly.com/library/view/python-for-data/9781491957653/>) by Wes McKinney.

Prerequisites

STAT 400 & STAT 420 OR Instructor's Consent.

List of Technologies Used in STAT 430

- Compass 2g (<https://compass2g.illinois.edu/webapps/login/>): grades and project submissions.
- Prairie Learn (<https://prairielearn.engr.illinois.edu/pl/login>): homework.
- Course website (<https://stat430.hknguyen.org>): lecture notes, videos, syllabus and other course materials.
- Piazza (<https://piazza.com/illinois/fall2020/stat430hn>): discussion forum.

Course Grades

Assessment	Percentage
Homework	40%
Labs	10%
Exam 1	15%
Exam 2	15%

Assessment	Percentage
Final Project	20%
Course Total	100%

Homework

- There will be **10 homework assignments**, each worth 100 points.
 - The homework assignment will be available on **Monday** each week.
 - **Each** homework assignment will have **3 deadlines**:
 - A 105% deadline: finish your homework by this deadline to get up to 105 points.
 - A 100% deadline: a deadline to get up to 100 points.
 - A 80% deadline: late submissions are accepted up to this deadline with a 20% penalty.
 - There are **unlimited** attempts on the homework. That is, you can answer the questions as many times as you want to get the maximum scores!
- Homework assignments can be accessed through Prairie Learn (<https://prairielearn.engr.illinois.edu/pl/login>).
 - You must log in using your Illinois log-in information (NetID and password).
 - Contact me ASAP if you run into issue with Prairie Learn.

Labs

- There will be **12 lab assignments**, each worth 10 points.
 - The lab assignment will be available on **Monday** each week and be **due Wednesday the following week**.
- More information on the labs can be found at the Labs ([labs.html](#)) tab.

Exams

- There will be **2 exams**, each worth 100 points.
- The exam details will be provided at the Exams ([exams.html](#)) tab.

Project

- There will be 1 Final Project which worths 100 points.
- The project details will be provided around Week 8.

Grading Scale

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	D-
TBD	93%	90%	87%	83%	80%	77%	73%	70%	67%	63%	60%

Grades are not curved or adjusted.

Grade Disputes

If you feel your homework or exam was graded incorrectly, you have one week from the date it was returned to discuss it with the instructor. After one week, grading is final except for exceptional circumstances. You may not simply ask for a re-grade, but instead must justify to the staff why the grading was done incorrectly. Also, by disputing any grading, you agree to allow the instructor to review the entire homework or exam for other errors missed during grading.

Attendance

You are expected to watch all lecture videos and read lecture notes. Failure to do so may not have a direct effect on your course grade, but will likely have a significant indirect effect. Any known or potential extracurricular conflicts should be discussed in person with the instructor during the first week of classes, or as soon as they arise.

Academic Integrity

The official University of Illinois policy related to academic integrity can be found in Article 1, Part 4 of the Student Code. Section 1-402 in particular outlines behavior which is considered an infraction of academic integrity (http://studentcode.illinois.edu/article1_part4_1-402.html). These sections of the Student Code will be upheld in this course. Any violations will be dealt with in a swift, fair and strict manner. Homework assignments are meant to be learning experiences. You may discuss the exercises with other students, but you must write-up the solutions on your own. **In short, do not cheat, it is not worth the risk. You are more likely to get caught than you believe.** If you think you may be operating in a grey area, you most likely are.

Safety

The university values your safety. Please read this document (<http://police.illinois.edu/dpsapp/wp-content/uploads/2017/08/syllabus-attachment.pdf>) or watch this video (<http://police.illinois.edu/emergency-preparedness/run-hide-fight/>).

Disability Accommodations

To obtain disability-related academic adjustments or auxiliary aids, students with disabilities must contact the course instructor and the Disability Resources and Educational Services (DRES) as soon as possible. To contact DRES, you may visit 1207 S. Oak St., Champaign, call 217-333-4603, e-mail disability@illinois.edu (<mailto:disability@illinois.edu>) or go to the DRES website (<http://disability.illinois.edu/>).

Changes

The instructor reserves the right to make any changes she considers academically advisable. Such changes, if any, will be announced in class. Please note that it is your responsibility to attend the class and keep track of the proceedings.

*Modified from David Dalpiaz's STAT 400 - Spring 2018 syllabus
(<https://daviddalpiaz.github.io/stat400sp18/syllabus.html>) with permission.*