Fall 2024 | Class 13772, Section 18DC | Periods 3-5 Thursdays | Weimer 2056 | 3 credits



Associate Professor Norman P. Lewis, Ph.D.

Office:	3052 Weimer Hall
Contact:	Email <u>nplewis@ufl.edu</u> or message through Canvas
Office hours:	In person, in office (no appointment): Wednesday 11:00am to 12:30pm
	In person, in office (no appointment): Thursdays 1:45 to 3:15pm
	Zoom: Make appointment (I turn on Zoom only by appointment)

Office hours are in-person (in my office) and drop-in (no appointment). If those hours conflict with your schedule, contact me and we will find a time that works. We can schedule meetings via Zoom when both our schedules allow Monday through Friday.

PART 1: ABOUT THE COURSE

Course Description

This course helps you think empirically about journalism, and find original stories by acquiring, cleaning, and analyzing civic data. It is a hands-on introduction to spreadsheets, databases, and statistics. A working knowledge of journalism is required, but no prior data expertise necessary. Open to non-majors.

Course Outcomes

By the end of the semester, you should be able to:

- Think empirically about covering and evaluating journalistic topics.
- Analyze data and find original, meaningful stories.
- Scrape data from PDFs and website tables without customized coding.
- Clean (standardize) data so it can be categorized and analyzed accurately.
- Use basic statistics to detect meaningful patterns and differences in data.
- Contextualize numbers through normalization and fair comparisons.
- Produce a publishable data project suitable for a job application.

My Related Data Courses

- JOU 3121 DataViz and Mapping (spring): online data viz & geospatial analysis
- JOU 4306 Advanced Data Journalism (spring): data coding using R
- JOU 4318 Sports Data Journalism (fall): a sports version of this course

Required Materials

- Basic laptop, either Mac or Windows
- Spend \$12 for an annual license for a Chrome browser extension for <u>Table Capture</u>
- Download Office 365 on your laptop free through <u>UF Tech</u>

Wk	Date	Theme	Key Topics & Skills	After Class
1	Aug 22	Voting	Where has voting most changed in Florida? Excel: sort, filter, percent change, percent of whole, cell reference, if	H1: Voting Due Aug. 26
2	Aug 29	Crime	Is the UF campus safe? Excel: formatting, sum, mean, median, rate, custom sort, if-error, average annual	H2: Crime Due Sept. 2
3	Sept 5	Equity	Do jobs by gender or race match population? Excel: conditional formatting, pivot table, ratio. Other: Census Bureau data	H3: Equity Due Sept. 9
4	Sept 12	Economy	Has the workforce recovered from Covd-19? Excel: find, mid, right, ifs, Flash Fill, text to column, trim. Other: Table Capture import	H4: Economy Due Sept. 16
5	Sept 19	Education	How does Florida teacher pay compare? Excel: text-to-column, trim, find/replace, correlation coefficient	H5: Education Due Sept. 23
6	Sept 26	Political Travel	Which House office accepts most gifted travel? Excel: xml import, substitute, char, trunc, iferror, len, left, date math. Other: OpenRefine	H6: Travel Due Sept. 30 Project Email Due Oct. 1
7	Oct 3	Political Donors	Where does Congress get its donations? Excel: transpose, extract date parts. Other: PDF scraping, geocoding	H7: Donors Due Oct. 7
8	Oct 10	Midterm	In class. Excel and cleaning. Open book.	
9	Oct 17	Project Plan Presentation	Present data project plan in class, per syllabus. Offer suggestions to help classmates.	H8: Salaries Due Oct. 21 Project Revise Due Oct. 22
10	Oct 24	SQL1 Essentials	When did movies bring in the most money? SQL: DB Browser, all six query commands, data formats, create new fields	H9: Oldies Due Oct. 28
11	Oct 31	SQL2 Advanced	Which state has more traffic fatalities? SQL: "big" data, import, export, WHERE multiple Boolean operators	H10: Crashes Due: Nov. 4
12	Nov 7	SQL3 Joins	How does U.S. rank in child mortality? SQL: join; remove, add, reformat fields. Other: humanize rates, obtain Census Bureau data	H11: Census H12: Boat22 Both due Nov. 11
13	Nov 14	SQL Exam	In class. SQL only. Open book.	
14	Nov 21	Final Project Presentation	Present your completed data project in class. Offer suggestions to help classmates.	Data Project Due Dec. 2
	Nov 28		Thanksgiving No class	

Tentative Schedule (subject to change)

PART 2: ASSIGNMENTS AND GRADING

Category	Pct	Details	
Homework	50%	Weekly. Best 10 of 12 count. Low 2 scores drop.	
Midterm	15%	In physical classroom Oct. 10. 3 hours.	
SQL Exam	15%	In physical classroom Nov. 14. 3 hours.	
Data Project	20%	See schedule below. Show final project in class Nov. 21. Due Dec. 2.	

Semester Grade Allocation

Deadlines are firm. If issues arise during the semester, contact me before deadline.

Grading Scale

	Percent		Percent		Percent		Percent
		B+	89-87%	C+	79-77%	D+	69-67%
А	100-93%	В	86-83%	С	76-73%	D	66-63%
A-	92-90%	B-	82-80%	C-	72-70%	D-	62-60%

Scores are rounded to the nearest whole point: 89.4 rounds down to 89 (B+) while 89.5 rounds up to 90 (A-). The <u>UF grading policy</u> details how GPA is computed.

Attendance Policy

Although no participation is not graded, regular class attendance is expected. This is a hands-on, learn-by-doing class.

Homework (50%)

Homework is open after each class. Each is due at 11:59 pm on Mondays. The 2 low scores drop and the highest 10 count. Each homework has 10 questions worth 10 points each.

Because you will have 4 days to complete each assignment, no extensions will be allowed unless you have an exemption covered by UF policy for the entire time period.



Bonus: Each homework submitted within 48 hours (before noon on Saturday) earns 10 bonus points. For the semester, that is 100 points, or a full letter grade.

Exams: Midterm (15%) and SQL Exam (15%)

Each exam is in person during the three-hour class. Each is an open-book, and open-Web (though must be your own work). Exams are like the homework assignments, only under deadline, as if you were in a job tryout.

A makeup exam is possible only if all three conditions are met:

- 1. The absence is covered by <u>UF policy</u>.
- 2. You contact me at least 30 minutes before class begins.
- 3. You promptly provide written documentation if appropriate.

Data Project (20%)

An original data story, solely by you, and unique to this class. Details in the next section.

DATA PROJECT

Grading: An A data story is ready for publication and likely to impress a potential employer.

Definition

A data-driven story is not just a story with a number. It meets three criteria:

- 1. Addresses an empirical, timely, and meaningful question of civic interest.
- 2. Answers by original analysis of sufficient data requiring a spreadsheet.
- 3. Analysis summarized by a single data point in the lede.

Examples

1. Addresses an empirical, timely, and meaningful question of civic interest.

- **Yes**: How does UF compliance with Title IX compare with football-intensive schools over the past 10 years?
 - Good question. Also, enough data to compare fairly.
- **No**: How did UF compliance with Title IX change last year? Not a fair comparison, and one-year change is insufficient to determine pattern.
- 2. Answers by original analysis of sufficient data requiring a spreadsheet.
 - **Yes**: Three out of every four dollars contributed to current Florida congressional candidates came from donors outside their districts. *Good story that required geocoding of donor records and Excel pivot tables.*
 - No: The U.S. Congressional candidate from Florida who raised the most money this year was Rep. Matt Gaetz, a Republican from the Panhandle. *FEC calculates these totals, so no spreadsheet analysis required beyond a sort.*
- 3. Analysis summarized by a single data point in the lede.
 - **Yes**: The portion of people granted asylum in the United States who were from Latin America has doubled in the past seven years.
 - Single data point (doubled) derived from spreadsheet analysis.
 - **No**: The portion of people granted asylum in the United States who were from Latin America rose from 14% to 32% in the past seven years. *Not a single data point, which impedes readability.*

How to Find a Data Story

- 1. Begin with a meaningful question of civic interest.
- 2. Find data that can answer that question.
- 3. Analyze the data to find a meaningful result.

Three-Part Submission

- 1. Main Story (for the audience) | Word document.
- 2. Nerd Sidebar (for the audience) | Word document.
- 3. Data: spreadsheet(s) and data diary (for me) | Excel spreadsheet.

Data Project Grading Rubric (80 points total out of 100 for assignment)

The rubric presumes the story is factually accurate, without meaningful errors in calculation or interpretation. Any such errors result in deductions up to 100 points.

1. Main Story (65 points)

Word doc. About 300 to 400 words. Focus on clarity and concision. Lede is most important sentence.

Category	Criteria	Points
1. Topic	Driven by an (a) empirical, (b) timely, and (c) meaningful question (d) of	10
	civic interest.	
2. Data	(a) Original to source and reliable. (b) Current. (c) Sufficient in quantity and	10
	(d) over enough time periods to fairly answer question. (e) Enough	
	variance to produce a meaningful pattern.	
3. Analysis	(a) Original analysis (b) requiring a spreadsheet to answer the question (c)	5
	beyond a sort or filter.	
4. Measures	(a) Appropriate measures used such as average, rate, percent, or ratio, and	5
	(b) normalize if required.	
5. Data Point	Analysis produced (a) an original, meaningful, and fair result (b)	5
	summarized by a single number, and (c) contextualized as appropriate.	
6. Lede	(a) A single sentence of (b) 25 words max (c) focused on the pattern	5
	detected (d) with 1 number max, and (e) sufficient to summarize story.	
7. Headline	(a) Engaging. (b) Matches lede but (c) does not repeat it. (d) 10 words max.	5
	(e) Includes present-tense verb.	
8. Scope	Story is (a) publication-ready. It is both (b) concise and (c) complete,	5
	without glaring omissions.	
9. Writing	(a) Complete sentences that are (b) grammatically correct and (c)	5
Mechanics	accessible to a general audience, (d) without cliches, jargon, or acronyms.	
10. Writing	(a) One number max per sentence. (b) Five numbers max per story. (d)	5
Numbers	Prefer words when reasonable without losing precision.	
11. Journalistic	(a) Tone is neutral, fair, and detached, (b) written in the third-person, with	5
	(c) hyperlinks to the data and any sources cited.	

2. Spreadsheet (15 points)

Spreadsheet with at least 2 sheets.

1. Spreadsheet	Include your data and your analysis. Can involve multiple sheets. I need	10
Data	enough detail to replicate your steps to test for accuracy.	
2. Data Diary	In a sheet labeled "diary," detail the steps you took, as appropriate, to (1)	5
	clean or standardize, (2) calculate measures, (3) refine and re-calculate.	

Assignment	Description	Points	Due Date
1. Project Plan	Email me with these four points:	4	Tuesday,
Email	1. The specific question you want to answer.		Oct. 1
	2. Source: The specific data you will use, with a hyperlink		
	to the source or a copy of the data file.		
	3. Method: How you will clean and analyze the data.		
	4. Lede: The single, specific data point you hope to find, written as a lede sentence.		
2. Project Plan	Revise your story plan as appropriate. Show all 4 points to	4	In class
Presentation	the class to obtain peer feedback and make refinements		Oct. 17
	as appropriate. Time limit: 5 minutes.		
3. Project Plan	Email me with a revised list of the four points above:	4	Tuesday,
Revision Email	1. The specific question you want to answer.		Oct. 22
	2. Source: The specific data will you use, with a hyperlink		
	to the source or a copy of the data file.		
	3. Method: How you will clean and analyze the data.		
	4. Lede: The single, specific data point you hope to find, written as a lede sentence.		
4. Project	Present completed (not a draft) data story in class, so you	8	In class
Presentation	can get peer feedback and make refinements before		Nov. 21
	submitting for a grade. Show class your (1) question, (2)		
	headline, and (3) lede. Also, (4) briefly describe the data		
	and analysis. Time limit: 5 minutes.		
5. Final Project	Upload to assignment in Canvas.	See	Monday,
Due		above	Dec. 2

Data Project Milestones (20 points total out of 100 for assignment)

PART 3: OTHER VERY IMPORTANT DETAILS

Academic Integrity

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code." On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (https://sccr.dso.ufl.edu/process/student-conduct-code) specifies a number of behaviors that are in violation of this code and the possible sanctions. Also, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with me. Violations can result in a failing grade for the course and referral to the dean of students.

Any work you submit must be solely and entirely your own. Any work drawn from another unattributed source, whether by plagiarism, Chat GPT, Gemini, Copilot, or any other AI program, is an academic integrity violation and will result in a failing grade for the course.

Students with Disabilities

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting the <u>get-started page</u>. It is important to share any accommodation letter with me and discuss access needs as early as possible in the semester.

Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

In-Class Recording

The official UF policy regarding in-class recording, to comply with a 2021 Florida law can be found <u>here</u>.

Health and Wellness

- **U Matter, We Care**: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care <u>website</u> to refer or report a concern and a team member will reach out to the student in distress.
- **Counseling and Wellness Center**: Visit the Counseling and Wellness Center <u>website</u> or call 352-392-1575 for information on crisis services as well as non-crisis services.
- **Student Health Care Center**: Call 352-392-1161 for 24/7 information to help you find the care you need or visit the Student Health Care Center <u>website</u>.
- University Police Department: Visit UF Police Department <u>website</u> or call 352-392-1111 (or 911 for emergencies).

• **UF Health Shands Emergency Room / Trauma Center**: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville. Visit the UF Health Emergency Room and Trauma Center <u>website</u>.

Academic Resources

- **E-learning technical support**: Contact the UF Computing Help Desk <u>website</u>, or phone 24/7 at 352-392-4357, or email <u>helpdesk@ufl.edu</u>.
- **Career Connections Center**: Career assistance and counseling services. Visit the <u>website</u>. Reitz Union Suite 1300, 352-392-1601.
- **Library Support**: Various ways to receive assistance with respect to using the libraries or finding resources. Visit the <u>website</u>.
- **Teaching Center**: General study skills and tutoring. Visit the <u>website</u>. Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420.
- **On-Campus Student Complaints**: Details are available through the Student Honor Code and Student Conduct Code, also known as the <u>Orange Book</u>.