

<p style="text-align: center;">MEJO 570 Data Driven Journalism Spring 2018</p>

MW – 9:30-10:45 a.m.
Carroll Hall 11
office hours: 11-12:30 MW, CA 215
Office Phone: 919-537-3681

Ryan Thornburg

COURSE DESCRIPTION:

In this skills-based course students learn how to acquire, clean, analyze and present data in a journalistic setting.

Your decision to take this course indicates that you are interested in learning the skills and concepts of data-driven reporting. My expectation is that you already have demonstrated clear news judgment and precise, brief storytelling either in or out of a classroom.

The class starts from the assumption that you've never or rarely used even a basic spreadsheet to aid either your reporting or storytelling. That's where the semester will begin. Along the road to data literacy we will also go over some basic statistics and basic data visualization concepts.

OBJECTIVES:

Students who successfully complete this course will be able to acquire, organize, analyze and present data to a general news audience. Students will learn how to use the tools of data-driven journalism as a means to developing and testing hypotheses that lead to transparent and reproducible data-driven stories.

Through the study of quantitative reasoning and methods, students in this course will acquire and reinforce the ability to use analytic and quantitative ideas as they are applied in the context of professional journalistic reporting. In today's world of fast-paced advances in the use of data, the importance of such skills cannot be overstated.

This course focus especially on the ways that quantitative reasoning can be applied to the kinds of data that professional news reporters use in a variety of media presentation formats. Students in this course will learn how to collect and interpret quantitative data, apply mathematical analysis in a news reporting context and use numerical reasoning to organize and present a story to general news audiences.

COURSE SCHEDULE:

Please see the course's website for detailed assignment instructions and deadlines.

COURSE MATERIALS:

Your laptop is the tool of your craft, and its care and maintenance reflect upon you and your readiness to work in the professional settings for which this course prepares you. Just like a guitar player wouldn't show up to rehearsal with a broken string, you also need to ensure your computer is in good working order each and every class. Laptops – like guitar strings – will break. Having a backup plan demonstrates maturity and professional preparedness.

You will need a student membership to IRE, which is available at <https://www.ire.org/membersonly/join/register> and costs \$25. This will give you access to dozens of tip sheets and resources we will use in class as well as software that would otherwise cost hundreds of dollars.

You will need the following software installed on your laptop. You are responsible for keeping the software up-to-date by downloading and installing all patches or updates as they are released:

- The most recent version of Excel (available from <http://software.sites.unc.edu/how-to-order/>)
- Tableau Desktop (<https://www.tableau.com/academic/students>)
- SQLiteBrowser (<http://sqlitebrowser.org/>)
- Carto (<https://www.ire.org/blog/ire-news/2015/03/06/free-upgraded-cartodb-accounts-ire-members/>)

Other useful software

- Firefox browser
- Chrome browser
- Chrome extension “Scraper” (<https://chrome.google.com/webstore/detail/scraper/mbigbapnjcgaffohmbkdlcacepngjd/related?hl=en>)
- OpenRefine (<http://openrefine.org/>)
- Sublime Text (<https://www.sublimetext.com/2>)
- Firefox plugin: Xpath Checker <https://code.google.com/archive/p/xpathchecker/>
- Chrome extension Xpath Helper
- “R” & “R Studio”: (<https://www.rstudio.com/products/rstudio/>)
- Outwit Hub Light (<http://outwit.com/products/hub/>)
- QGIS (and required GDAL framework): <http://www.kyngchaos.com/software/qgis>

You do not need to purchase any books for this course.

COURSE GRADES:

Our semester is divided up in to four units, each with their own goal. At the end of each unit I will give you a grade so that you always know how you are doing throughout the semester.

Unit 1: Spreadsheets (Jan. 10 – Feb. 7)

Unit 2: Single table databases (Feb. 12 – March 7)

Unit 3: Joining datasets (March 12 – 28)

Unit 4: Real world tools & reporting (April 2- 25)

For each of these units your grade will be equal parts class attendance, homework assignments & quizzes, and a final comprehensive assignment at the end of the unit. Together, your grades on these four units will be 90 percent of your grade.

The remaining 10 percent of your grade will be a final project that we will begin on April 2 and will be due at 11 a.m. on May 7. (Our official class final period is May 7, 8 a.m. - 11 a.m., which we will use for final editing and reflection on your projects. Put these three hours on your calendar now.)

WHAT GRADES MEAN:

A – Mastery of course content at the highest level of attainment that can reasonably be expected of students at a given stage of development. The A grade states clearly that the student has shown such outstanding promise in the aspect of the discipline under study that he or she may be strongly encouraged to continue.

B – Strong performance demonstrating a high level of attainment for a student at a given stage of development. The B grade states that the student has shown solid promise in the aspect of the discipline under study.

C – A totally acceptable performance demonstrating an adequate level of attainment for a student at a given stage of development. The C grade states that, while not yet showing unusual promise, the student may continue to study in the discipline with reasonable hope of intellectual development.

D – A marginal performance in the required exercises demonstrating a minimal passing level of attainment for a student at a given stage of development. The D grade states that the student has given no evidence of prospective growth in the discipline.

F – For whatever reason, an unacceptable performance. The F grade indicates that the student's performance in the required exercises has revealed almost no understanding of the course content. A grade of F should warrant an advisor's questioning whether the student may suitably register for further study in the discipline before remedial work in undertaken.

Grade	Minimum %
A+	100
A	95
A-	90
B+	87
B	83
B-	80
C+	77
C	73
C-	70
D+	67
D	60

STUDENT HONOR:

The University of North Carolina at Chapel Hill has had a student-led honor system for over 100 years. Academic integrity is at the heart of Carolina and we all are responsible for upholding the ideals of honor and integrity. The student-led Honor System is responsible for adjudicating any suspected violations of the Honor Code and all suspected instances of academic dishonesty will be reported to the honor system.

All academic work in this course, including homework, quizzes, and exams, is to be your own work, unless otherwise specifically provided. It is your responsibility if you have any doubt to confirm whether or not collaboration is permitted. If the work is truly your own, you will be able to explain and demonstrate to my satisfaction how you did it.

Do not represent someone else's words, thoughts, or ideas as your own without attribution in connection with submission of academic work, whether graded or otherwise.

Further information about the student Honor Code is available at <http://studentconduct.unc.edu/honor-system>

DIVERSITY:

The University's policy on Prohibiting Harassment and Discrimination is outlined in the 2011-2012 Undergraduate Bulletin <http://www.unc.edu/ugradbulletin/>. UNC is committed to providing an inclusive and welcoming environment for all members of our community and does not discriminate in offering access to its educational programs and activities on the basis of age, gender, race, color, national origin, religion, creed, disability, veteran's status, sexual orientation, gender identity, or gender expression.

SPECIAL ACCOMODATIONS:

If you require special accommodations to attend or participate in this course, please let the instructor know as soon as possible. If you need information about disabilities visit the Department of Disability Services website at <http://disabilityservices.unc.edu/>

ACCREDITATION:

The School of Journalism and Mass Communication's accrediting body outlines a number of values you should be aware of and competencies you should be able to demonstrate by the time you graduate from our program. Learn more about them here:

<http://www2.ku.edu/~acejmc/PROGRAM/PRINCIPLES.SHTML#vals&comps>

No single course could possibly give you all of these values and competencies; but collectively, our classes are designed to build your abilities in each of these areas. In this class, we will address a number of the values and competencies, with special emphasis on the last six bullet dots under "Professional values and competencies" in the link above.