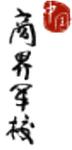




PHBS

北京大学汇丰商学院



Course Code

Data Journalism and Information Visualization

Module 2, 2019-2020

Course Information

Instructor: WeiMing YE

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Classes:

Lectures: Tue. 10:30-12:20, Fri. 10:30-12:20

Venue: PHBS Building, Room 415

Course Website:

If any.

1. Course Description

1.1 Context

Course overview: Every day, more of our lives are being stored in a database somewhere. With that explosion of data, journalists now more than ever need the skills to analyse and understand data to then produce the stories hidden in the information. In this class, we'll use brainpower and software to look at raw data -- not summarized and already reported information -- to do investigative reporting. We're going to get our hands dirty with spreadsheets, databases, maps and some basic stats. And we're going to do journalism. So buckle up and hold on.

This course teaches some of the skills and techniques necessary for using statistical information effectively in data journalism. Obtaining, interpreting, visualizing and displaying data are essential skills for journalists in the 21st Century, especially those who cover financial and technical subjects. Students will scrutinize techniques used in previously published projects and will also analyse data on their own, evaluating and producing tables, charts and diagrams using a variety of basic desktop software, web tools and basic scripting and programming.

Prerequisites: Social Research Methods.

1.2 Textbooks and Reading Materials

- The Data Journalism Handbook. Free!
- Data Literacy: A User's Guide
- The Truthful Art
- The Functional Art
- 黄慧敏：最简单的图形与最复杂的信息。浙江人民出版社，2013年。

2. Learning Outcomes

2.1 Intended Learning Outcomes

Learning Goals	Objectives	Assessment (YES with details or NO)
1. Our graduates will be effective communicators.	1.1. Our students will produce quality business and research-oriented documents.	Yes.
	1.2. Students are able to professionally present their ideas and also logically explain and defend their argument.	YES. Telling story from data, with data.
2. Our graduates will be skilled in team work and leadership.	2.1. Students will be able to lead and participate in group for projects, discussion, and presentation.	YES. Master spread sheets and basic data analysis for storytelling.
	2.2. Students will be able to apply leadership theories and related skills.	YES.
3. Our graduates will be trained in ethics.	3.1. In a case setting, students will use appropriate techniques to analyze business problems and identify the ethical aspects, provide a solution and defend it.	NO.
	3.2. Our students will practice ethics in the duration of the program.	YES. How to access data efficiently and ethically.
4. Our graduates will have a global perspective.	4.1. Students will have an international exposure.	YES. Publish final data journalism work to media platforms.
5. Our graduates will be skilled in problem-solving and critical thinking.	5.1. Our students will have a good understanding of fundamental theories in their fields.	YES. Data visualization, descriptive statistics, social network analysis.
	5.2. Our students will be prepared to face problems in various business settings and find solutions.	NO.
	5.3. Our students will demonstrate competency in critical thinking.	YES. 3Cs in class: Curious, Critical, Creative.

2.2 Course specific objectives

- Understand the basics of data and data journalism, including the brief history of the practice
- Master the use of data in journalistic storytelling
- Master spreadsheets and basic data analysis for storytelling
- Use public records laws and understand your rights as a citizen and a journalist
- Gain exposure to advanced tools of data journalism, like GIS and statistics, as well as advanced methods of gathering data

2.3 Assessment/Grading Details

The grading will be based on the stories you produce, the work you put into them and your participation in class. The bulk of the graded work in this class is as follows:

Assignment	Percentage of your grade
Final Project	70%
Assignments (case study or tool review)	30%

Final Project: You will be required to pitch and execute one data journalism story with your teammates. The stories must include original analysis of data you have obtained, a graphic or visualization of that data and a story worth publishing on “datahotpot” (or news media if possible).

2.4 Academic Honesty and Plagiarism

It is important for a student's effort and credit to be recognized through class assessment. Credits earned for a student work due to efforts done by others are clearly unfair. Deliberate dishonesty is considered academic misconducts, which include plagiarism; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; or altering, forging, or misusing a University academic record; or fabricating or falsifying of data, research procedures, or data analysis.

All assessments are subject to academic misconduct check. Misconduct check may include reproducing the assessment, providing a copy to another member of faculty, and/or communicate a copy of this assignment to the PHBS Discipline Committee. A suspected plagiarized document/assignment submitted to a plagiarism checking service may be kept in its database for future reference purpose.

Where violation is suspected, penalties will be implemented. The penalties for academic misconduct may include: deduction of honour points, a mark of zero on the assessment, a fail grade for the whole course, and reference of the matter to the Peking University Registrar.

For more information of plagiarism, please refer to *PHBS Student Handbook*.

3. Topics, Teaching and Assessment Schedule

Nov. 15	Lesson 1: What is data journalism?
Readings	The Data Journalism Handbook, Chapter 1
Nov. 19	Lesson 2: Introduction to information visualization.
Readings	The Functional Art, Chapter 5, 6, 7, 8, 9
Nov. 22	Presentation 1: Case studies
Readings	@叶未名 #DJ#
Nov. 26	Presentation 2: Your topic
Nov. 29	Lesson 3: Rules of Information Visualization
Readings	《最简单的图形与最复杂的信息》; The Truthful Art, Chapter 5
Dec. 3	Lesson 4: Access to data
Readings	The Truthful Art, Chapter 11
Dec. 6	Lesson 5: Data Analysis 101: Data cleaning
Readings	The Truthful Art, Chapter 3, 4
Dec. 10	Lesson 6: Data Analysis 1: From data to charts & graphs
Readings	The Truthful Art, Chapter 6, 7, 8
Dec. 13	Lesson 7: Data Analysis 2: From data to charts & graphs
Readings	The Truthful Art, Chapter 6, 7, 8
Dec. 17	Lesson 8: Drafting your project
Readings	The Truthful Art, Chapter 2
Dec. 20	Presentation 3: Your tools
Dec. 24	Lesson 9: Data Analysis: From data to maps
Readings	The Truthful Art, Chapter 10
Dec. 27	Lesson 10: Data Analysis: From data to Social Networks
Readings	Exploratory Social Network Analysis with Pajek, Chapter 1, 2
Dec. 31	Presentation 4: Your story
Jan. 3	Lesson 11: From data to interactive storytelling
Readings	The Truthful Art, Chapter 12
Jan. 7	Lesson 12: Scientific storytelling
Jan. 10	Presentation 5: Final Project

4. Miscellaneous

Curious! Critical! Creative!