SUMMER 2021
GENB 7397 EXPERIENTIAL LEARNING IN DATA VISUALIZATION

Instructor:	**Emese Felvegi, Ed. D.**
Class Times & Classrooms:	Online, with one face-to-face meeting via Zoom Wednesdays from 11:00 AM to 11:45 AM (not mandatory, but attend if you can, please, thank you!)
E-mail: Blog:	efelvegi@uh.edu http://blogs.bauer.uh.edu/felvegi/
Office Hours:	By appointment

The information contained in this syllabus is subject to change. Students are expected to regularly check Blackboard for announcements and updates.

Course description: Open government data sets from energy, finance, transportation, healthcare, and other fields allow for exciting ways to utilize popular desktop and cloud applications from Microsoft to gain practical skills for any business environment. A practical approach to key 21st century concepts related to business intelligence combined with data analysis, visualization, and report authoring will help you become more competitive in the workforce. This course will cover locating, processing, analyzing, visualizing, and reporting data by leveraging Microsoft Excel and Power Pivot, Power BI, and Microsoft Teams.

LEARNING GOALS AND COURSE OBJECTIVES:

1. **Working Knowledge of Ethics and Legal Compliance:** Students will demonstrate awareness of ethical and legal issues with a framework for resolving them.
2. **Disciplinary Competence:** Students will demonstrate competence in their respective disciplines. C*omputer* and *information literacy skills* for effective decision making.
3. **Communication Skills:** Students will communicate in an effective and professional manner through written and/or oral presentation assignments. *Cultural* and *behavioral literacy skills* for civil and effective communication.
4. **Critical Thinking:** Students will apply problem solving models to business situations.

Learning goals and course objectives will be accomplished through readings, discussions, assignments, and a case study regarding data sets chosen by course participants from the Energy Information Administration, Consumer Financial Protection Bureau, National Highway Traffic Safety Administration, The Centers for Medicare - Medicaid Services.

REQUIRED TEXTBOOK:
Introduction to Data Visualization & Storytelling: A Guide For The Data Scientist by Jose Berengueres
(available at a low cost on Amazon.com).
Excel and PowerBI guides available via UH Libraries, links will be shared in Blackboard
Official Excel & PowerBI documentation support.office.com and powerbi.microsoft.com, links will be shared in Blackboard

SOFTWARE:

- **Microsoft Office Suite 2016 for Windows.** Office 365/2016 for Windows is available for FREE via your Access UH > Software Downloads tab. Download a desktop copy by logging in with your CougarNet account. Here is how: https://uh.edu/infotech/services/office365/office-pro-plus/
- **Microsoft Power BI desktop:** Download for free from https://powerbi.microsoft.com/en-us/desktop/.

BLACKBOARD LEARN: This course will utilize Blackboard Learn to provide you with class information. Each student will be required to complete individual assignments using Blackboard and Microsoft Office Suite Applications. These assignments provide hands-on use of the skills and material covered in the Excel textbook and in class. Required assignments and trainings must be completed by the due date in order to receive credit.

CONDUCT: "The classroom environment should be conducive to learning at all times. Therefore, it is important to respect other students and the instructor by demonstrating appropriate language, courtesy, and demeanor in class. Further, certain behaviors may be considered disruptive to the learning environment and/or may be disrespectful toward other students and faculty" (Bauer Code of Ethics, http://goo.gl/4FDGyl, p. 2). Students exhibiting any type of disruptive or disrespectful behavior

towards the instructor, speakers, or peers will be removed from the classroom. Concerning conduct will be reported to the Dean of Students.

ACADEMIC HONESTY: The University of Houston Academic Honesty Policy is strictly enforced by the C. T. Bauer College of Business. No violations of this policy will be tolerated in this course.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES: The C. T. Bauer College of Business would like to help students who have disabilities achieve their highest potential. In order to receive academic accommodations, students must register with the Center for Students with Disabilities (CSD) (telephone 713-743-5400), and present approved accommodation documentation to their instructors in a timely manner. The CSD services are fully confidential.

COURSE EVALUATION: Download the grade calculator from Blackboard and keep track of your assignments via that Excel spreadsheet. Please note: grades depend on students' investment in their learning. Students may earn bonuses or penalties based on their conduct, communication and activities in class, on Blackboard, or during tutoring sessions.

Grade Posting: It is the responsibility of the student to verify if the grade is correct and advise the instructor of any inconsistencies.

Grade Allocations	*Points Possible*
Weekly Quizzes (4 x 10 points)	40
Weekly Reflections (4 x 5 points)	20
Group Project or Individual Paper (1 x 40 points)	40
Group Presentation or Individual Report (1 x 10 points)	10
Total	100

Grading: The grading scale is as follows:

A	90-100 points		C	70-78 points
B+	89 points		D+	69 points
B	80-88 points		D	60-68 points
C+	79 points		F	below 60 points

DROPPING THE COURSE: Please consult the UH Academic Calendar for dates on dropping the course: http://catalog.uh.edu/content.php?catoid=6&navoid=1220/

INSTRUCTOR EVALUATION:
Our College requires all of its instructors to be evaluated by their students, these evaluations provide feedback to the instructors as well. We openly encourage students to provide feedback to the instructors and to the CBA through the evaluation process.

TENTATIVE COURSE SCHEDULE

Time	*Topic*	*Description*	*Assignment*
Week of 6/7		Introduction to the course Berengueres Chapter 1-2 Check-in on 6/3 at 11:00 AM via Zoom Excel Labs 1-2	Quiz 1 Reflection 1
Week of 6/14		Berengueres Chapter 3 Excel Lab 3 Check-in on 6/10 at 11:00 AM via Zoom Power BI Labs 1-2	Quiz 2 Reflection 2
Week of 6/21		Projects open Berengueres Chapter 4-5 Power BI Labs 3-4 Check-in on 6/17 at 11:00 AM via Zoom	Quiz 3 Reflection 3
Week of 6/28		Berengueres Chapters 6-7 Check-in on 6/24 at 11:00 AM via Zoom Project or paper preview session	Quiz 4 Reflection 4
Final week		Group project presentation or individual paper presentation	