



Dr. Svetlozar Nestorov
312-915-7103, snestorov@luc.edu
Schreiber 619, 16 East Pearson, Chicago, IL 60611

Office Hours:
Tuesday 1pm – 2:15pm, 5pm – 6pm
Thursday 1pm – 2:15pm

INFS592 Data Visualization, Spring 2019
Tuesday 6pm– 9pm, Schreiber 605

Catalog Description

- The amount of data that our world generates is growing at a torrid pace. Sifting through and making sense of these gargantuan mountains of data is crucial to ensuring business growth and success and to making scientific discoveries and advancements. Data visualization plays an increasingly important role in this process. In this course, students will learn the theory that drives data visualization and the practice of creating beautiful and meaningful charts, graphs, and dashboards using Tableau.

Course Overview

- This course includes lectures, homework assignments, exams, and projects.

Course Objectives and Learning Outcomes

- Students will be able to process and visualize large amounts of data in order to enable efficient and effective analysis using industry-standard software.

Recommended Textbooks/Materials

“Show Me the Numbers: Designing Tables and Graphs to Enlighten” – June 1, 2012

by Stephen Few

ISBN-13: 978-0970601971 ISBN-10: 0970601972 Edition: 2nd

“The Visual Display of Quantitative Information” Hardcover – May, 2001

by Edward R. Tufte

ISBN-13: 858-0001045689 ISBN-10: 0961392142 Edition: 2nd

Course Requirements and Grading Criteria

| | |
|----------------------|-------|
| Homework Assignments | - 30% |
| Exams | - 30% |
| Project | - 30% |
| Class Participation | - 10% |

Course Grading Scale

| | |
|----|-------------|
| A | minimum 92% |
| A- | minimum 90% |
| B+ | minimum 88% |
| B | minimum 82% |
| B- | minimum 80% |
| C+ | minimum 78% |
| C | minimum 72% |
| C- | minimum 70% |
| D+ | minimum 68% |
| D | minimum 60% |
| F | below 60% |

HW Assignments:

HW assignments are due before midnight on the due date. All HW assignments must be submitted via Sakai. **YOU CANNOT SHARE ANY PART OF YOUR HW FILES WITH ANY OTHER STUDENT. EVERY STUDENT MUST WORK INDIVIDUALLY ON THEIR OWN FILES. ANY INSTANCE OF SHARING OF HW FILES (OR ANY PARTS OF HW FILES) WILL BE GROUNDS FOR SERIOUS DISCIPLINARY ACTION AGAINST ALL PARTIES INVOLVED.**

Late submission policy: no late assignments accepted.

Additional notes:

- Check your grades often in the grade book on Sakai.
- Office hours' visits are encouraged and welcomed. Stop by as many times as you wish. If you are experiencing any problems do not hesitate to come to the office hours (or schedule an appointment). Also, feel free to visit during office hours to get advice on follow up classes, discuss career choices, or simply introduce yourself.
- Before you start with any HW assignment, download all the necessary files onto your computer or flash drive (do not open the files directly from the Sakai site).
- Use e-mail judiciously (in general, e-mail is to be used for short messages, such as scheduling an appointment or requesting clearing of inadvertently submitted files). *If you need concrete help with a HW assignment, please come to the office hours.*

Quinlan School of Business Policies:

Attendance

Class attendance and participation are fundamental components of learning, so punctual attendance at all classes, for the full class meeting period, is expected of Quinlan students.

Make-Up Examinations

Loyola University academic policy provides that tests or examinations may be given during the semester or summer sessions as often as deemed advisable by the instructor. Because Quinlan faculty believe examinations represent a critical component of student learning, required examinations should be taken during the regularly scheduled class period. **Make-up examinations are discouraged.** Exceptions may be granted only by the faculty member or department chair, and only for unavoidable circumstances (illness verified by a signed physician's note, participation in intercollegiate athletic events, subpoenas, jury duty, military service, bereavement, or religious observance). A make-up final examination may be scheduled only with the permission of the appropriate Quinlan Assistant or Associate Dean. For a student with a documented special testing need, please consult University policy concerning use of the testing center in Sullivan Center at Lake Shore Campus.

Academic Integrity

All members of the Quinlan School shall refrain from academic dishonesty and misconduct in all forms, including plagiarism, cheating, misrepresentation, fabrication, and falsehood. Plagiarism or cheating on the part of the student in individual or group academic work or in examination behavior will result minimally in the instructor assigning the grade of "F" for the assignment or examination. In addition, all instances of academic dishonesty must be reported to the chairperson of the department involved.

For further information about expectations for academic integrity and sanctions for violations, consult the complete Quinlan School of Business Honor Code and Statement of Academic Integrity on the Quinlan website:

<http://luc.edu/media/lucedu/quinlan-graduate/pdfs/Honor-Code-Quinlan-July2012.pdf>

Notes:

This class may occasionally deviate from the stated course outline below.

The instructor reserves the right to make changes as needed to the course syllabus.

Any issue that is not described in this syllabus will be resolved at the sole discretion of the instructor.

Daily Course Outline (Tentative and subject to change)

| <i>Date</i> | | <i>Exams & Quizzes</i> | <i>Topics</i> | <i>Project</i> | <i>DUE</i> |
|-------------|--------|----------------------------|---------------------------------------|----------------|------------|
| Tuesday | Feb 26 | | Introduction | | HW 1 |
| Tuesday | Mar 12 | | Data Types, Basic Chart Types | | HW 2 |
| Tuesday | Mar 19 | | Perception, Distortion, Lie Factor | | HW 3 |
| Tuesday | Mar 26 | Quiz 1 | Tableau Overview, Calculated Fields | | HW 4 |
| Tuesday | Apr 2 | | Interactive Top-K Charts, Parameters | Project Part 1 | |
| Tuesday | Apr 9 | | Folders, Hierarchies, Groups, Filters | | HW 5 |
| Tuesday | Apr 16 | | Joins, Unions, Data Blending, Sets | | HW 6 |
| Tuesday | Apr 23 | | Table Calculations | | HW 7 |
| Tuesday | Apr 30 | Quiz 2 | Information Dashboards, Maps | | HW 8 |
| Tuesday | May 7 | | Final Project Presentations | Final Project | |