



QUINLAN SCHOOL OF BUSINESS ADMINISTRATION

**ISSCM 491-001 Managerial Statistics**  
**Spring 2019, Th 6:00 – 9:00**  
**Corboy Law Center Room 725**

**Instructor:** Faruk Guder  
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**Office Phone:** 312-915-7062  
**Office Hours:** 1:00-2:20 TTh  
4:30 – 5:30 TTh or by Appointment

**Course Description:**

The purpose of the course is to provide the student with statistical and data analysis tools useful for managers. The course emphasizes all the steps and procedures required to successfully managerial problems in which data are useful - from the definition of the managerial problem to statistical formulation of the problem, to data collection, to data analysis, and finally to the use of the statistical information in decision making. Topics considered are measures of central tendency and dispersion, theoretical distributions, estimation, hypothesis testing, correlation, regression and time series analysis. MS Excel and PHStat will be used to analyze data. The version of your textbook allows you to use PHStat. You can download PHStat (PHStat.xlam) from the **Resources** page of the course website.

**Course Overview**

Course involves lectures, homework problems and a project using MS Excel and PHStat

**Course Objectives and Learning Outcomes**

The primary goal of the course is to help students understand how the methods of statistics can be applied successfully to decision-making processes under uncertainty. This is accomplished by introducing students to the subjects of data collection, data summary, basic probability concepts, normal distribution, sampling, and drawing conclusions about large populations based on information obtained from samples. The techniques of estimation, hypothesis testing and regression are used for making inferences.

Students completing this course should be able to:

- Generate, modify and interpret qualitative and quantitative data.
- Develop and understand statistical models used to make decisions under uncertainty.
- Understand how quantitative and qualitative analysis is used to help businesses make better decisions in the face of uncertainty.

**Required Materials**

- **Text:** Statistics for Managers Using Microsoft Excel with PHStat, 8th Edition, Levine, Szabat and Stephan, Pearson 2017. ISBN13: 9780134566672 • ISBN10: 013456667X
- **Class/Lecture Notes:** Can be downloaded from the **Resources** page of the course web site at Sakai.
- **PHStat:** The file (PHStat.xlam) can be downloaded from the **Resources** page of the course web site at Sakai.

## Tentative Course Schedule MBA

Weeks	Day	Subjects
01	Feb 21	Introduction, Collecting/Presenting/Describing Data and Excel
02	Feb 28	The Normal Distribution, Sampling Distribution, and Estimation
03	Mar 14	Hypothesis Testing
04	Mar 21	Analysis of Variance
05	Mar 28	Exam
06	Apr 04	Simple Regression and Correlation
07	Apr 11	Multiple Regression
08	Apr 18	Model Building (using regression)
09	Apr 25	Time Series Analysis or Review
10	Mar 02	Exam

**Please note:** This class may occasionally deviate from the course outlined above. The instructor reserves the right to make changes as needed to the course syllabus.

### Homework Assignments

Homework:	Due Date:	Points:
Homework 1	February 28, 2019	( 4 points)
Homework 2	March 14, 2019	( 8 points)
Homework 3	March 21, 2019	( 8 points)
Homework 4	March 28, 2019	( 3 points)
Homework 5 (Exam in class)	April 4, 2019	(20 points)
Homework 6	April 11, 2019	( 8 points)
Homework 7	April 18, 2019	( 8 points)
Homework 8	April 25, 2019	( 8 points)
Homework 9	May 02, 2019	( 8 points)
Homework 10 (Exam in class)	May 02, 2019	(25 points)
	TOTAL	(100 Points)

### Grading

The Basic Grading Scale			
95.00 – 100.00	A	65.00 - 69.99	C
90.00 - 94.99	A-	60.00 - 64.99	C-
85.00 - 89.99	B+	55.00 – 59.99	D+
80.00 – 84.99	B	50.00 – 54.99	D
75.00 – 79.99	B-	00.00 – 49.99	F
70.00 – 74.99	C+		

## 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. The student is responsible for any assignments or requirements missed during an absence.

### 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://www.luc.edu/media/lucedu/quinlanschoolofbusiness/pdfs/Honor-Code-Quinlan-July2012.pdf>

