

University of North Texas at Dallas Spring 2017 Syllabus (1/17/17-3/11/17)	
DSCI 5010 “Introductory Business Statistics” (1.5HR-Internet Based)	
School of Business	Department of Business
Instructor Name:	<i>Daniel D. Friesen</i>
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Office Hours:	M 1-5 pm; T 2-6 pm; Th 2-6 pm; F 2-4 pm
Virtual Office Hours:	By appointment or by using the Email Link in Blackboard
Classroom Location:	Internet-Based Course
Class Meeting Days & Times:	Internet
Course Catalog Description:	Basic descriptive statistics with an introduction to inferential approaches; includes frequency distributions, averages, variations, probability, probability distributions, and sampling distributions. Includes a review of business calculus.
Prerequisites:	Two years of high school algebra.
Co-requisites:	None.
Required Text:	Software: Discovering Business Statistics by James Hawkes: 9781938891007 Text: Business Calculus Demystified by Rhonda Huettenmueller: 9780071451574
Recommended Text and References:	1. Discovering Business Statistics by Nottingham and Hawkes, 978-1-935782-87-2. Note: The Hawkes Learning System enables purchasing an online version of this text at a much lower price than the hardback version. 2. Online reference: http://faculty.atu.edu/mfinan/bcalbook.pdf
Access to Learning Resources:	UNT Dallas Library: phone: (972) 780-3625; web: http://www.unt.edu/unt-dallas/library.htm UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fhcg.follett.com
Course Goals or Overview:	All business decisions require valid data and valid analytical techniques. The goals of this course are (1) to develop an understanding of and facility with descriptive statistics techniques and approaches, (2) to strengthen your ability to create graphical decision-making aids using Excel, and (3) to develop sufficient familiarity of business calculus to allow you to undertake more advanced studies in the MBA program.

Learning Objectives/Outcomes: At the end of this course, the student will	
1	Have acquired a working knowledge of business calculus. Techniques and definitions to be mastered include finding derivatives of simple functions, integrating simple functions, finding averages of simple functions, finding slopes of functions, and interpreting these values.
2	Have acquired the ability to interpret descriptive statistics for the purpose of making business decisions.
3	Be able to select statistical tools and methodologies appropriate to the business decision context.
4	Be able to use Excel to produce descriptive statistics for the purpose of analyzing data.
5	Be able to use Excel to produce frequently encountered graphical descriptions of data.
6	Be able to produce and interpret confidence intervals of a single mean.

Grading Matrix:

Instrument	Point Value	Total Points
Calculus Quizzes	10 points each * 8 quizzes	80
Hawkes Modules	15 points each * 16 modules	240
Plots	80 points	80
Project	80 points	80
Total:	Total earned points will be divided by 4.8 to get a final average.	480

Final Average Grading Scale:

90 – 100 = A 80 – 89 = B 70 – 79 = C 60 – 69 = D 0 – 59 = F

Calculus Quizzes:

- There will be up to ten (10) calculus quizzes scheduled; each will be based on selected sections in the recommended reading. These quizzes are posted in the Course Files and Materials section of Blackboard.
- Each quiz will consist of multiple choice, true-false and/or short answer questions.
- If a student becomes locked out of a quiz, s/he must send me a message via the Email link explaining why s/he became locked out. No makeup quiz will be allowed except for documented emergencies (See Student Handbook).

Hawkes Modules:

- Up to twenty (20) modules will be assigned from the Hawkes Learning System software. These modules are scored as **pass** (full credit) or **fail** (0 points).
- The due date for all modules is the last day of the semester. I do not recommend procrastinating as some of the modules are quite difficult.

Plots:

- This assignment consists of your creating 10 plots using Excel.
- Your guide for creating the plots is posted in the Course Files and Materials section of Blackboard. Similarly, the data spreadsheet is posted in the Course Files and Materials section of Blackboard.
- The due date for this assignment is 3/7/16. The assignment is to be submitted in a single Word document, through the Blackboard email system. Late assignments are penalized at 2% per day late.

Project:

- An integrative, experiential written Project is required as your final submission by 3/11/16.
- The description and data are posted in the Course Files and Materials section of Blackboard.

Course Schedule:

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by the instructor through the Message Link in the course.

- The Spring 2017 course will open on the first day of class, 1/17/2016, and close on 3/11.
- All assignments will be open and students may work at their own pace.

<u>Week</u>	<u>Start Date</u>	<u>Completion Date</u>	<u>Blackboard Module</u>
1	1/17	1/22	1 of 8
2	1/23	1/29	2 of 8
3	1/30	2/5	3 of 8
4	2/6	2/12	4 of 8
5	2/13	2/19	5 of 8
6	2/20	2/26	6 of 8
7	2/27	3/5	7 of 8
8	3/6	3/11	8 of 8

Here is the work grouped according to Blackboard Modules. For maximum flexibility, there are no due dates; however, the dates associated with the Blackboard Modules do signify the most appropriate time periods in which to seek aid, pose questions, etc.

Blackboard Module	Week (latest start time)	Business Calculus materials	Hawkes Modules for certification	Business Statistical Graphics plots	Project
1 of 8	1, ASAP	Acquire text Quiz 1	Acquire software and optional text HM#1, HM#2	Assure access to Excel, Acquire data file PLOT#1	
2 of 8	2	Quiz 2	HM#4, HM#5	PLOT#2	
3 of 8	3	Quiz 3	HM#8, HM#9	PLOT#4	
4 of 8	4	Quiz 4	HM#10,	PLOT#5	
5 of 8	5	Quiz 5	HM#13,	PLOT#6	
6 of 8	6	Quiz 6	HM#15, HM#16,	PLOT#8,	
7 of 8	7	Quiz 9	HM#17, HM#18	PLOT#10	
8 of 8	8	Quiz 10	HM#20	Submit document	Commence and complete

Details: missing details mean that there is no assignment for that item!

Here is the list of Business Calculus coverage, chapter numbers refer to the Huettenmueller reference:

Quiz	Coverage	Pages
1	Algebra Review, skip "Miscellaneous Notation" section	1-12; 16-28
2	Chapter 1: The Slope of a Line and the Average Rate of Change	29-38
3	Chapter 2: The Limit and Continuity	39-74
4	Chapter 3: The Derivative and Chapter 4: Three Rules	75-109; 114-116
5	Chapter 5: Instantaneous Rates of Change	117-125
6	Chapter 8: Graphing and The First Derivative Test	182-216
7		
8		
9	Chapter 13: The Indefinite Integral	325-331; 348
10	Chapter 14: The Definite Integral and the Area Under the Curve	353-389

Here is the list of Hawkes Modules (referred to as HM#1 to HM#20):

- HM#1 1.1-1.3 Getting Started
- HM#2 2.5-2.6 Levels of Measurement and Data Classifications
- HM#3
- HM#4 3.4 Frequency Distributions
- HM#5 3.5-3.9 Graphical Displays of Data: Histograms, and Stem-and-Leaf Displays
- HM#6
- HM#7
- HM#8 4.1 Measures of Location
- HM#9 4.2a Measures of Dispersion
- HM#10 4.3 Measures of Relative Position
- HM#11
- HM#12
- HM#13 5.1-5.2 Classical Probability
- HM#14
- HM#15 6.5 The Binomial Distribution
- HM#16 7.2 Introduction to the Normal Curve
- HM#17 7.3a Reading a Normal Curve Table
- HM#18 7.3b The Normal Distribution
- HM#19
- HM#20 9.1-9.3 Interval Estimation of the Population Mean

Here is the list of Plots (details are provided in the Plots template file) (referred to as PLOT#1 to PLOT#10):

- PLOT#1 Frequency Histogram #1:
- PLOT#2 Frequency Histogram #2
- PLOT#3
- PLOT#4 Pie Chart
- PLOT#5 Stem-and-Leaf Plot
- PLOT#6 Scatter Plot#1
- PLOT#7
- PLOT#8 Pivot Table #1
- PLOT#9
- PLOT#10 Pareto Chart

University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students' with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive. For more information, you may visit the Student Life Office, Suite 200, Founders Hall or call Cindy Suarez at 972-338-1777.

Student Evaluation of Teaching Effectiveness Policy:

The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at [http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic Integrity.pdf](http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic%20Integrity.pdf) for complete provisions of this code.

In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.

Bad Weather Policy:

On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.unt.edu/dallas. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

Optional Policies:

- *Use of Blackboard—this course relies on Blackboard.*
- *Use of Cell Phones & other Electronic Gadgets in the Classroom—not relevant.*
- *Food & Drink in the Classroom—not relevant.*
- *Use of Laptops—not relevant.*