University of North Texas at Dallas Spring 2012 SYLLABUS

	Business Statistica	al Analysis using Spreadsheets 3 Hrs
Department of	Business	Division of Urban and Professional Studies
Instructor Name:	Daniel D. Friesen	
Office Location:	Founders Hall 236	
Office Phone:	972.338.1805	
Email Address:	dfriesen @unt.edu	
Liliali Addiess.	umesen want.eda	
Office Hours: TR noon -	2 pm; W 10 am – 4 pm; T	4-6 pm
	t applicable	
Classroom Location: B	Building 1 Room 348	
Class Meeting Days & Time		m
Class weeting Days & Time	es. 1K 2.30 pm - 3.50 p	III
Course Catalog Stat	tistical inference for means	and proportions, analysis of variance, correlation, simple
		sive use of cases and spreadsheets.
Description: and	Thumple regression. Extens	sive use of cases and spreadsneets.
Prerequisites: None		
Co-requisites: None		
Required Text: 1. Bi Keel:		(Courseware Edition), Kvanli / Pavur /
2. <u>A</u>	<u>dventures in Statist:</u>	ics, by James S. Hawkes of Hawkes Learning.
Recommended Text An and References:	ny Excel primer	
Access to Learning Resou	rces: UNT Dallas Librar	V.
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Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by email, Hawkes, and in-class discussion.

TOPICS	TIMELINE
Course and Instructor Policies	Week 1
Review of necessary concepts from DSCI 2710	
Hypothesis testing for a population mean	
One-tailed test for μ with large n	Week 2
Use of p-values	
Hypothesis tests for population mean - small n, introduction to t-tables	Week 3
C.I. & hypothesis test for two populations means - large independent samples.	
C.I. & hypothesis test for two populations means - small independent	Week 4
samples.	
Paired (dependent) small samples from two populations.	
F-test for two variances	Week 5
One-way analysis of variance.	
CASE 1: Comparing population Means - Excel Quiz 1 (Finance)	
C.I. for population proportion: large samples only.	Week 6
Determination of sample size	
CASE 2: One-way ANOVA Excel Quiz 2 (Marketing / Management)	
Hypothesis test for population proportion.	
Comparing two population props large	Week 7
Catch up and Review	
Quiz 1 on HLS modules 9.3, 9.4, 9.5, 9.6, 10.2, 10.3, 10.4, and 12.1 for 50 points	
Catch up and Review	Week 8
******* EXAM 1 ******	
Chi-Square test for independence/homogeneity	Week 9
Chi-Square test: p-values using chi-square tables	
Bi-variate data & correlation	Week 10
Covariance & Least Squares Line	
Meaning of s ²	
CASE 3: Chi-Square test - Excel Quiz 3 (Marketing)	
Simple linear regression: hypothesis test and C.I. for slope	Week 11
Coefficient of determination, danger of assuming causality.	
Estimation/Prediction	
Residual analysis	
Multiple regression: Global F- test vs individual t-tests	Week 12
Multicollinearity	
Dummy variables.	Week 13
Multiple regression using Excel	
Step-wise Procedures, further residual analysis, Multiple Regression Cases	
and Examples	
CASE 4: Multiple Regression - Excel Quiz 4 (Real-Estate)	
Multiple Regression Cases and Examples Catch-up and review	Week 14
Quiz 2 on HLS modules 9.2, 9.10, 10.1, 11.1, 11.2, 11.3, 11.4 and 11.5 for 50	
points	W 1 16
Catch-up and review	Week 15
Finals Week: Comprehensive Final Exam	Week 16

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

- Exams There is 1 in-class mid-term exam worth 200 points and 1 comprehensive final worth 200 points. If a student misses the first in-class exam (with an appropriate University approved excuse, as mentioned above) the final may be used to substitute for the missed exam. For each exam you will be allowed to use formula sheets, notes, textbooks, any calculator, and Tables.
- Excel Cases: Projects involving the use of Excel to analyze business data are assigned
 These are an important part of the course grade that is graded via an online
 Quiz that is available in the HLS software using WEBTEST on the dates they are
 due. Late Excel Cases are typically not accepted.
- HLS Tutorial Exercises (module certifications): Tutorial exercises using the Hawkes
 Learning Systems (HLS): Business Statistics are assigned. The due dates for
 the tutorials using HLS software are assigned in the detailed syllabus.
 These form a significant part of the course grade and must be registered onto
 the HLS Web database by the due date to receive full credit.

Grading Matrix:

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Instrument	Value (points or percentages)	Total	
Mid-term Exam	200 points	200	
HLS Tutorials	16 at 10 points each	160	
Excel Quizzes	4 at 10 points each	40	
Final Exam	200 points	200	
Total:		600	

Grade Determination

Letter Grades: 540+ = A 480+ = B 420+ = C 360+ = D

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, Building 2 or call Laura Smith at 972-780-3632.

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 with 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.

Assignment Policy:

While only the HLS tutorials (modules) and Quizzes on Excel cases are graded, you are expected to read and understand the relevant sections of the textbook. All reading material is testable, even if it is not emphasized in the lecture.

Exam Policy:

The instructor may allow a make-up exam, or the final exam could be counted twice instead of giving a make-up exam. The course grade of "I" is not given except for rare and very unusual emergencies, as per university guidelines.

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-

<u>dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic_Integrity.pdf</u> 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.

Attendance and Participation Policy:

Attendance is not counted in the grading policy; neither is participation. Student success is directly related to attendance and participation. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

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.

Policies:

- Use of electronic devices that create distractions to the students or instructor is not tolerated.
- Use of Laptops is permitted and encouraged it you find them helpful. They will not be available for testing.
- See the Student Handbook for a comprehensive discussion of Incompletes. The grade of Incomplete, "I", is seldom given and cannot be used to compensate for poor performance in this course.