**University of North Texas at Dallas**  
**Summer 2017**  
**SYLLABUS**

**DSCI2710-001: Data Description and Analysis, 3 hours**

<table>
<thead>
<tr>
<th>Department of</th>
<th>Business</th>
<th>Division of</th>
<th>ITDS</th>
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**Instructor Name:** Theodore Larson  
**Office Location:** FH (DAL2) 233  
**Office Phone:** 972-338-1825  
**Email Address:** theodore.larson@untdallas.edu (preferred method)

**Office Hours:** By Appointment  
**Virtual Office Hours:** Online Discord Chat Room, link in Blackboard

**Classroom Location:** FH (DAL2) 213  
**Class Meeting Days & Times:** Tu/Th 1-5p

**Course Catalog Description:** Collection, description and analysis of numerical data. Data presentation, tables, charts and graphs, descriptive statistics, analysis of time series and index numbers, sampling techniques and distributions, estimation, confidence intervals, with applications in quality control and productivity. Prerequisite(s): Must have completed two years of high school algebra and one year of geometry and be eligible for college level math course.

**Prerequisites:** Eligibility for college level math  
**Co-requisites:** NA


**Recommended Text and References:**

**Access to Learning Resources:**  
UNT Dallas Library:  
phone: (972) 780-3625;  
web: [http://www.unt.edu/unt-dallas/library.htm](http://www.unt.edu/unt-dallas/library.htm)  
UNT Dallas Bookstore:  
phone: (972) 780-3652; e-mail:  
1012mgr@fheg.follett.com

**Course Goals or Overview:**  
This course is designed for all business majors. A non-calculus approach to statistical analysis that utilizes computer-based learning tools and focuses on applied spreadsheet applications as well as the broader, strategic, and ethical ramifications of statistical analysis.
**Learning Objectives/Outcomes:** At the end of this course, the student will

1. Solve statistical problems when given all relevant facts and figures
2. Identify relevant facts and figures of word problems
3. Apply spreadsheet knowledge to the solution of statistical problems
4. Analyze statistical conclusions for appropriateness
5. Interpret statistical solutions within a broader framework, both strategic and ethical

**Course Outline**

his schedule is subject to change by the instructor. Any changes to this schedule will be communicated by in-class discussion.

<table>
<thead>
<tr>
<th>TOPICS</th>
<th>WEEK</th>
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<tbody>
<tr>
<td>Chapter 1: Population v. Sample</td>
<td>1</td>
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<tr>
<td>Chapter 2: Data Precision</td>
<td>1</td>
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<tr>
<td>Chapter 3: Data Presentation</td>
<td>1</td>
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<tr>
<td>Exam #1, Ch 1-3</td>
<td>2</td>
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<tr>
<td>Chapter 4: Statistical Measures</td>
<td>2</td>
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<td>Chapter 5: Probability</td>
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<tr>
<td>Chapter 6: Discrete Probability Distributions</td>
<td>3</td>
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<tr>
<td>Exam #2, Ch 4-6</td>
<td>3</td>
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<tr>
<td>Chapter 7: Continuous Random Variables</td>
<td>3</td>
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<tr>
<td>Chapter 8: Samples and Distributions</td>
<td>4</td>
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<tr>
<td>Chapter 9: Estimation</td>
<td>4</td>
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<tr>
<td>Exam #3, Ch 7-9</td>
<td>4</td>
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<tr>
<td>Review, Application, and Excel</td>
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<td>Exam #4, Ch 1-9, Reflection Paper</td>
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**Course Evaluation Methods**

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Percent</th>
<th>Grade</th>
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<tbody>
<tr>
<td>4 Exams (100 pts each)</td>
<td>400</td>
<td>90.0%+</td>
<td>A</td>
</tr>
<tr>
<td>12 Certifications (50 pts each)</td>
<td>600</td>
<td>80.0% - 89.9%</td>
<td>B</td>
</tr>
<tr>
<td>Reflection Paper</td>
<td>50*</td>
<td>70.0% - 79.9%</td>
<td>C</td>
</tr>
<tr>
<td>Application Research Paper</td>
<td>50*</td>
<td>60.0% - 69.9%</td>
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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 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:
All assignments should be submitted by the stated due date, by the method described in the assignment.

Exam Policy:
Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

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 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:
Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. 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.

Further Information
Hawkes

All Assignments will be performed in Hawkes software. Participation in the online software training is mandatory. Further information can be obtained through the Hawkes website. A couple key points:

- Course code is: UNTDDBS
- Course Instructor is: Larson, Theodore
- Required Modules are:
  - 1.1-1.3, Getting Started
  - 2.4-2.6, Levels of Measurement and Data Classification
  - 3.4, Frequency Distributions
  - 3.5-3.9, Graphical Displays of Data
  - 4.1, Measures of Location
  - 4.2a, Measures of Dispersion
  - 5.1-5.2, Classical Probability
  - 6.1-6.3, Discrete Random Variables
  - 6.5, Binomial Distribution
  - 7.2, Introduction to the Normal Curve
  - 7.3b, The Normal Distribution
  - 8.3, The Distribution of the Sample Mean
- Further modules may be opened up as ‘Bonus’. Results from completion will be discussed in class
- All 4 exams should be taken in Hawkes