University of North Texas at Dallas Fall 2016 SYLLABUS

	MATH 1680 - 003 Elementary Probability and Statistics (3CR)						
Depart	ment of	Mathematics and Information Sciences	School of	Liberal Arts and Sciences			
Instructor Name		Helena Grant	Helena Grant				
Office Location		DAL-1 201C					
Email Address		helena.grant@untdallas.edu					
Class Time & Room		TR: 11:30 AM - 12:50 PM DAL2-212					
Office Hours		MW 8:30 - 9:50 AM , W 2:30 – 3:50 PM, TR 11:00 - 12:20 PM,					
Catalog Description		An introductory course to serve students of any field who want to apply statistical inference. Descriptive statistics, elementary probability, estimation, hypothesis testing and small samples. Students may not receive credit for both MATH 1680 and MATH 1681.					
Prerequisites		Two years of high school algebra and one year of high school geometry and consent of department, or MATH 1010 with grade of C or better. Satisfies the Mathematics requirement of the University Core Curriculum.					
Required Text		WebAssign (http://webassign.net) course ID: unt 7917 0438 (includes an e-book)					
Recommended Text and References		Elementary Statistics, by R. Johnson and P. Kuby, 11 th edition, Cengage Learning, (2011), ISBN-13: 978-0538733502.					
Core Goals and Objectives		The goal of this course is to introduce students to the concepts of elementary probability and statistics.					
Loarni	na Ohioctiva	se/Outcomes: At the end of this cou	rea the student	will be able to			
Learning Objectives/Outcomes: At the end of this course, the student will be able to 1 Explain the use of data collection and statistics as tools to reach reasonable conclusions.							
1	Recognize, examine and interpret the basic principles of describing and presenting data						
1	Recognize	examine and interpret the basic princip	IIES Of DESCRIPING	n and presenting data			
2			•	<u> </u>			
	Compute ar	nd interpret empirical and theoretical pr	•	<u> </u>			
2	Compute an combinatori	nd interpret empirical and theoretical prices	•	<u> </u>			
3	Compute an combinatori Explain the Examine, a	nd interpret empirical and theoretical prics role of probability in statistics. nalyze and compare various sampling o	obabilities using	the rules of probabilities and			
2 3 4 5	Compute an combinatori Explain the Examine, an random var	nd interpret empirical and theoretical prics role of probability in statistics. nalyze and compare various sampling of iables.	obabilities using	the rules of probabilities and			
2 3 4 5	Compute an combinatori Explain the Examine, a random var Describe ar	nd interpret empirical and theoretical prics role of probability in statistics. nalyze and compare various sampling of iables. nd compute confidence intervals.	obabilities using	the rules of probabilities and			
2 3 4 5	Compute and combinatorion Explain the Examine, and random var Describe ar Solve linear	nd interpret empirical and theoretical prics role of probability in statistics. nalyze and compare various sampling of iables.	obabilities using	the rules of probabilities and			

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated through the class website and the official UNT e-mail. Besides the scheduled assignments, additional readings and activities may be added. Such changes will be communicated through the class page.

	Tuesday	Thursday
Week 1(8/22)	1. Statistics	2. Descriptive Statistics, Single
		Variable
Week 2(8/29)	2. Descriptive Statistics of Single	Descriptive Statistics of Bivariate
	Variable	Data
Week 3 (9/5)	3. Descriptive Statistics of Bivariate Data	4. Probability
Week 4 (9/12)	4. Probability	5. Probability Distribution
Week 5 (9/19)	5. Probability Distribution	6. Normal Distribution
Week 6 (9/26)	6. Normal Distribution	7. Sample Variability
Week 7 (10/3)	7. Sample Variability/Review	Midterm Exam (Oct. 4)
Week 8 (10/10)	8. Introduction to Statistical Inference	8. Introduction to Statistical Inference
Week9(10/17)	9. Inferences Involving One Population	9. Inferences Involving One Population
Week 10 (10/24)	9. Inferences Involving One Population	10. Inferences Involving Two
	-	Populations
Week 11 (10/31)	10. Inferences Involving Two Populations	10. Inferences Involving Two
		Populations
Week 12 (11/7)	11. Applications of Chi-Square	12. Analysis of Variance
Week 13 (11/14)	13.Linear Correlation and Regression	13. Linear Correlation and Regression
	Analysis/Review	Analysis/Review
Week 14 (11/21)	13. Linear Correlation and Regression	Thanks Giving (Nov. 26)
	Analysis/Review	
Week 15 (11/28)	Project Presentation	Review
Week 16 (12/5)	Review	EXAM STARTS
Week 17	Final Exam (Dec. 13 th)11:00 – 1:00 PM	

Course Evaluation Methods

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

- **Exams**: written tests designed to measure the knowledge and the understanding on the course materials, to be taken in class.
- **On-line Assignments**: computer-based assignments designed to supplement and reinforce the course materials, through Web assign
- Written Assignments: small-scale written assignments designed to supplement, reinforce and assess the course materials and the ability to write mathematical phrases, sentences and paragraphs, to be submitted on assigned due dates.
- Projects: written assignments in larger scale that combines the applications to business or other social and behavioral sciences. Semester long Project

Grading Policy:

Activities/Assignments	Value (percentages)	Grade Determination	
Exam 1 (Midterm)	30%	Total Score (%)	Grade
Final Exam	40%	90 – 100	Α
Written Assignment	10%	80 – 89	В
Computer Assignment	10%	70 – 79	С
Final Project	10%	60 – 69	D
Total:	100%	0 - 59	F

Instructor Specific Policies and Procedures Exam Policy:

The midterm and the final exams must be taken in person as scheduled, except for documented emergencies approved by the instructor in individual bases.

Assignment Policy:

The projects must be submitted electronically through the course website. Late submission will be accepted with the late penalty of 10% per day, and the final submission must be done before the final week begins.

Written assignments must be submitted in class on the assigned due dates with a late penalty of 10% per day past the due date.

You will have 5 attempts for online assignment through web assign. Late online assignments will incur a one-time late penalty of 50 %, and must be done within 5 days of the due date.

Technology Requirement:

TI83/84 series calculator is required for this class. You will be required to use word and excel for your project

Math Lab hours:

 Monday & Wednesday:
 9:00 AM - 7:00 PM

 Tuesday & Thursday:
 10:00 AM - 7:00 PM

 Friday:
 5:00 PM -7:00 PM

 Saturday:
 10:00 AM - 3:00 PM

University Policies and Procedures

Online "Netiquette":

Emails should use proper "netiquette," i.e., no writing in all caps (usually denotes yelling), no curse words, and no "flaming" messages (angry, personal attacks). Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind. Any violation of netiquette policies may result in a loss of points or removal from the course. Repeated online misconduct may be subject to more serious sanctions, such as warnings and other sanctions in accordance with the University's policies and procedures. Refer to the Student Code of Student Rights Responsibilities and Conduct at http://www.untdallas.edu/osa/policies. Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

Students with Disabilities (ADA Compliance):

The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (i.e., 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 972-780-3632.

Blackboard Learn Accessibility Statement: University of North Texas at Dallas is committed to ensuring its online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used.

Blackboard Learn course management system's accessibility statement is also provided: http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx

Instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Student Evaluation of Teaching Effectiveness Policy:

The Student Evaluation of Teaching Effectiveness (i.e., 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 conduct and Academic Dishonesty 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 Student Rights Responsibilities and Conduct at http://www.untdallas.edu/osa/policies for complete provisions of this code.

Turnitin Statement:

Students may be required to submit written assignments for this class to Turnitin, a web-based plagiarism detection service. Before submitting your paper to Turnitin, please remove your title page and other personal information. (OPTIONAL: Any paper that is not submitted to Turnitin prior to submission to the instructor will not be accepted by the instructor and will not be graded).

Attendance and Participation Policy:

The University attendance policy is in effect for this course. Class attendance in the Blackboard classroom 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 the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible for notifying the instructor if they will be missing online class requirements, and they must share their reason for missing class.

Online Attendance: Attendance for this online or hybrid course is considered when you are logged in and active in Blackboard, i.e., posting assignments, taking quizzes, or completing Discussion Boards. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. Note that all instructors will follow the university policy of 14 consecutive days of unexcused absences/inactivity (i.e., failure to post assignments, take quizzes, or complete Discussion Boards) in a distance learning course resulting in failure of the course.

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.