### Core Curriculum Cover Page

**Directions:** Each course submitted for review by the General Education Oversight Committee must include: 1) completion of all relevant items on this form; 2) a course syllabus that includes the appropriate learning outcomes and assessments; 3) any other information about the course that would assist the evaluation. **All courses considered for the new core must be submitted to GEOC for evaluation by April 22.** 

Core Area (check the appropriate category for the course):											
☐ Communication	X Mathematics	☐ Life and Physical Sciences									
☐ Language, Philosophy, Culture	☐ Creative Arts	☐ American History									
☐ Government/Political Science	☐ Social /Behavioral Science	☐ Component Area Option									
Rationale: Please provide a brief rationale for the course which explains how the course being proposed fits the description of this component											
UTPB faculty differ whether this transfor their degree. Adding the course	sfer is preferable or equivalent to to our curriculum allows disciplin e it in degree plans. Math 1342	students who have taken the course.  the MATH offerings in General Education es to formalize its role. That is, each will now be available at UTPB for those ation level.									
Course Type:	g Course	re Course X New Course									
Course Prefix and Number:Ma	th 1342										
Dept/College:Mathematics_											
Course Title:Elementary Statis	tics										
<b>Course Catalog Description:</b> C Analysis includes descriptive statistics,											
Name and e-mail address for pers	son who can answer questions	about the course:									
Wendy Padilla padilla	w@utpb.edu										
Departmental Approval/Date  GEOC Approval/Date	7/20										
☐ GEOC Rejection/Date											
☐ GEOC Revision Request/Date (Exp	GEOC Revision Request/Date (Explain revision required and return for review date)										

#### MATH 1342-001: Elementary Statistics

Fall 2020 Tues/Thus 8:00-9:15 am

Instructor:

Wendy Padilla

Room:

Office:

ST 1248

Office Hours:

Contact Info: padilla w@utpb.edu

Materials:

Required: MyMathLab code, purchased at the Bookstore or online

Recommended: The Artand Science of Learning from Data, 4th edition by Agresti and

Franklin

**Prerequisite:** Two years of high school algebra, one year of high school geometry, and satisfactory score on placement examination or completion/corequisite of MATH 0399.

**Description:** Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. (Texas Higher Education Coordinating Board)

#### **Measurable Outcomes:**

Upon successful completion of this course, students will:

Explain the use of data collection and statistics as tools to reach reasonable conclusions.

Recognize, examine and interpret the basic principles of describing and presenting data.

Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics.

Explain the role of probability in statistics.

Examine, analyze and compare various sampling distributions for both discrete and continuous random variables.

Describe and compute confidence intervals.

Solve linear regression and correlation problems.

Perform hypothesis testing using statistical methods. (Texas Higher Education Coordinating Board)

#### Topics:

Mean, median, mode, standard deviation, and quartiles Graphical respresentations of data
Binomial and normal distributions
Central Limit Theorem
Confidence intervals
Hypothesis tests
Linear regression models

**Methods of assessment:** The expected learning outcomes for the class will be assessed through exams, homework, quizzes, and/or active learning activities.

**Time Spent Outside of Class:** The general rule of thumb is that for each hour spent in class, a student should spend 2-3 hours of study time.

https://www.collegeparentcentral.com/2010/02/is-your-college-student-investing-enough-time-st udying/

Quizzes: We will be learning the material this semester using flipped instruction. You will be asked to watch a video lecture and fill out the powerpoint skeleton notes over the material that was watched. You will take a quiz over the material that was covered the next time you class over that material. If you are absent, you must come by my office during office hours to take the quiz no later than review day.

**In-Class Activities and/or Homework:** Class time will be used for active learning activities. Classroom activities are expected to be your work entirely. You will be turning one I choose within 5 minutes of the start of class on review day. Most days, homework will be assigned after class in order to solidify what has been learned in class. It will close right before the next time you come to class. Participation in the in-class activities and on the homework is required in order for you to succeed in the exams.

**Tests:** Tests will be announced at least a week in advance. If you have questions on misgrading, you must speak to me about it **within 1 week** after I have given back grades. You will lose all privileges to pose concerns thereafter. You are NOT allowed to go to the bathroom during tests.

**Folder Check**: Folders will be taken up at the beginning of class on review days and possibly test days to be graded. Please see *Folder Check Requirements* under Getting Started for Rubric on how I will grade. The average of the 4 Folder Checks will count as a test grade that would only be used for the second computation of your grade.

Attendance: Attendance is mandatory in order for you to learn the material. You are required to stay the whole time in order for the attendance to count. If you are absent for any reason, you are responsible for all make-up work, notes, turning in homework, or taking a test the next time you come to class. Please find a reliable friend from whom to get your notes. If you are absent on test day, you must notify me prior to and give proper documentation.

You will be allowed 3 absences. Any absence thereafter will constitute in a reduction of 1.5 points of your final grade.

I strongly encourage you to schedule any doctor's visits around class hours, as these absences would still count against your attendance.

You may check your attendance in Canvas. You have one week to dispute attendance discrepancies. Thereafter, you lose this opportunity. It is your responsibility to let me know that you are present when you arrive late to class, and I have already taken attendance.

**Officially School Approved Trips:** Students must give proper documentation and prior notification. The student will be responsible for the material missed.

#### **Grading:**

The overall grade is calculated in **two steps**. First, the base grade is computed solely from tests:

- Test 1: 20%
- Test 2: 20%
- Test 3: 20%
- Test 4: 20%
- Final Exam 20%

This grade corresponds to letter grades in the usual manner: 90% -A, 80%-89% B, etc.

Once the base is computed, a second score is used for curving:

For Students whose grades on tests is passing, a second computation is performed:

- Homework 20%
- Quizzes: 10%
- Tests: 60%

#### Final Exam 10%

This second score may be used to raise the base grade. It will never be used to lower a base grade. Please note: the grade that will appear in MyLab will be your **base grade**.

#### All students will be required to take the comprehensive final exam.

You must earn your grade in my class. Do not expect an A, for example, if you have an 89.49 in my class.

**Extra Credit:** Opportunities for extra credit will be announced throughout the semester. If you are not in class when extra credit is offered, you lose the opportunity to do that extra credit. It is important that you take advantage of any extra credit I offer because I do not do curves or corrections on tests.

**Academic Honesty:** Unless otherwise stated in class, you may receive help from other people and different resources on homework. Unless otherwise stated, tests and quizzes are expected to be your work entirely. The first offense will result in an automatic zero on that assignment. The second offense will immediately result in a failing grade for the course. Cheating includes giving false information on absences related to officially school approved trips.

Civility in the classroom: Students are expected to assist in maintaining a classroom environment which is conducive to learning. In order to assure all students have an opportunity to gain from time spent in class, troublesome behavior will not be tolerated. This includes the use of cellular phones, making offensive remarks, reading newspapers, sleeping, bad attitudes, or engaging in any other form of distraction. The instructor is authorized to take such steps as are necessary when the behavior of a student disrupts the normal classroom procedure. Instructors may remove a student for the single class session. If disruptive behavior becomes continuous and/or serious, the instructor may begin disciplinary proceedings.

# You are not allowed to use phones, I Pads, laptops, or any other devices in class for other purposes except those allowed by the instructor.

If you have an emergency, and you must read or respond to a text or answer a phone call, you are expected to to go outside of the classroom.

#### Phone in class

First Offense HW deducted by 50 pts Second Offense HW replaced by a 0

Third Offense HW replaced by a 0 and disqualification from the final exam to replace a low test

grade.

#### American Disabilities Act

Students with Disabilities: The University of Texas of the Permian Basin in compliance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act provides "reasonable accommodations" to students with disabilities. Any student with a disability who is requesting an accommodation for this course must provide the instructor with official documentation in the form of a letter from the ADA Officer for Students. Only those students who have officially documented a need for an accommodation will have their request honored. \*\*Adapted from UTSA ADA syllabus statement.\*\*

ADA Officer for Students: Mr. Paul Leverington

Address: Mesa Building 4243 /4901 E. University, Odessa, TX 79762

Voice Telephone: 432-552-4696

Email: ada@utpb.edu

Tutoring: Tutoring is available from the Student Success Center (MB 2215). 552-3350.

# Math 1342 Elementary Statistics

Semester Plans\* \*subject to change as deemed by instructor

Chapter 1: Statistics: The Art and Science of Learning from Data(1 days).

Chapter 2: Exploring Data with Graphs and Numerical Summaries (4 days).

Chapter 3: Association: Contingency, Correlation, and Regression (4 days).

Chapter 4: (Optional).

Chapter 5: Probability, Probability Distributions and Sampling Distributions (4 days).

Chapter 6: Probability Distributions (3 days).

Chapter 7: Sampling Distributions (4 days).

Chapter 8: Statistical Inference: Confidence Intervals (4 days).

Chapter 9: Statistical Inference: Significance Tests about Hypotheses (5 days).

Chapter 10: Comparing Two Groups (3 days).

#### Math 1342 Core Curriculum Assessment Statement

#### Quantitative Literacy definition, as described by the AACU

Also known as Numeracy or Quantitative Reasoning, is a "habit of mind", competency, and comfort in working numerical data. Individuals with strong QL skills possess the ability to reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations. They understand and can creata sophisticated arguments supported by quantitative evidence and they can clearly communicate those arguments in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate)

The following problems were taken from MyLab from the textbook Statistics: The Art and Science of Learning from Data, 4/E by Agresti, Franklin, and Klingenberg

Problem 1	Assesses representation and application/analysis
Problem 2	Assesses interpretation, application/analysis
Problem 3	Assesses interpretation, calculation, assumptions, application/analysis, and communication

#### **Critical thinking and Communication**

The problem given can be used to assess both critical thinking and communication skills. In order to answer the question, the student must clarify, collect, consider and conclude based on the data given.

In addition, communication is proven by presenting the final answer in a manner relevant to the original problem.

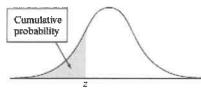
	udent: ite:	Instructor: Wendy Padilla Course: Math 1342	Assignment: Quantitative Literacy							
1.	Assume that 67 fatal shark attacks were recorded in a large body of water over a 9 year span, with 2 being reported in Region A, 3 in Region B, 4 in Region C, 20 in Region D, 13 in Region E, 7 in Region F, 5 in Region G and 5 in Region H. The rest occurred in other regions. Complete parts a through c below.									
	a. Construct the frequency tal	rk attacks.								
	(Type integers or decimals ro	unded to one decimal place as needed.)								
	Region Frequency	Percentage (%)								
	Α									
	В									
	С									
	D									
	E									
	F									
	G									
	Н									
	Other									
	Total	war ni de anni de an Realista anni anni anni de								
		######################################								
	b. Identify the modal category	. Choose the correct answer below.								
	O A. Region H									
	O B. Region D									
	OC. Region A									
	O D. Region E									
	○ E. Region Other									
	c. Describe the distribution of fatal shark attacks across the regions. Choose the correct answer below.									
	○ A. The frequency of fatal	shark attacks seems to be cyclical.								
	O B. The number of fatal shark attacks in a given region is likely random.									
	○ C. Fatal shark attacks happen with approximately the same frequency in all of the regions.									
		E are the single regions with the highest nu								

The fo	ollo	vin	g d	ot p	lot	repr	rese	ents	the	su(	gar	val	ues	(in	grai	ns)	) of	a ce	ertai	in breakfast cereal. Complete parts a and b below.
	0	I	1 2	1 3	1 4	T 5	1 6	1 7	• 1 8	• 	10	• 1	12	13	14	1 15	     	1 17	18	_
a. Ind	enti	fy t	he	min	imu	ım a	and	ma	xim	um	sug	jar v	valu	es.						
Minim	um	=_					_ g													
Maxin	nun	=					_ ç	3												
<b>b.</b> Wh	ich	sug	gar	out	con	nes	oco	ur ı	mos	st fre	qu	enti	y? V	Vha	ıt ar	e tl	hes	e va	lue	s called?
The o							st f	req	uen	t are	e					•				
These	va	ue	s aı	re c	alle	d th	ie (	1)_												
(1) (	С	ran	ge.																	
	C-6.		an.																	

median.mode.

For the response variable y, the selling price in thousands of dollars, and the expanatory variable x, the size of the house in thousands of square feet, $\hat{y} = 9.7 + 77.3x$ . <b>a.</b> How much do you predict a house would sell for if it has (i) 2000 square feet, (ii) 3000 square feet? <b>b.</b> Using results in part a, explain how to interpret the slope. <b>c.</b> Is the correlation between these variables positive or negative? Why? <b>d.</b> One home that is 3000 square feet sold for \$300,000. Find the residual, and interpret.
a. (i) The predicted selling price of a house that has 2000 square feet is \$
(ii) The predicted selling price of a house that has 3000 square feet is \$
b. Which of the following statements best interprets the slope?
A. For every increase of 1000 square feet to house size, the predicted selling price increases by \$77,300.
B. For every increase of \$1000 in selling price, the predicted size of the house increases by 77,300 square feet.
<ul> <li>C. For every increase of 1000 square feet to house size, the predicted selling price decreases by \$77,300.</li> </ul>
<ul> <li>D. For every increase of \$1000 in selling price, the predicted size of the house decreases by 77,300 square feet.</li> </ul>
c. The correlation is (1) because the selling price tends to (2) as the house size increases.
d. The residual is \$
Which of the following statements best interprets this residual?
A. The selling price of this particular house is less than the predicted value by the amount of the residual.
B. The residual is the amount the predicted selling price of houses increases for each increase of 1000 square feet.
○ C. The residual is the predicted selling price for houses with zero square feet.
O. The selling price of this particular house is greater than the predicted value by the amount of the residual.
(1) negative (2) decrease positive increase

	udent: ate:		Instructor: Wendy Padilla Course: Math 1342	Assignment: Critical Thinking and Communication
)	period Click I	i of roughly 28 weeks, 23 of the here to view the table of standa	ects aged 18-49 were vaccinated with a vase subjects developed the illness. Complete normal cumulative probabilities (page of normal cumulative probabilities (page of normal cumulative probabilities)	ete parts a through e below.
	a. Fin	d the point estimate of the popu	lation proportion that were vaccinated wit	th the vaccine but still developed the illness.
	The p	oint estimate is	<i>:</i>	
	(Roun	d to five decimal places as nee	ded.)	
	b. Find	d the standard error of this estin	mate.	
	The st	tandard error of this estimate is	·	
	(Roun	d to five decimal places as need	ded.)	
	c. Find	d the margin of error for a 95% of	confidence interval.	
	The m	eargin of error is	i <del>s</del>	
	(Roun	d to five decimal places as need	ded.)	
	d. Cor	nstruct the 95% confidence inter	rval for the population proportion. Interpre	et the interval.
		5% confidence interval for the p		).
	Interpr	ret the interval. Choose the corr	ect answer below.	
	() A.		ts of the confidence interval contain the paccinated with the vaccine but still develo	· ·
	○ B.		ho are vaccinated with the vaccine but stinfidence interval 95% of the time.	Il develop the illness
	○ c.	, ,	ple aged 18-49 who are vaccinated with the limits of the confidence interval 95%	
	O D.		ts of the confidence interval contain the paccinated with the vaccine who do not dev	
		safe to conclude that fewer that n by using the results from part		ated with the vaccine will develop the illness?
	O A.	No, it should not be concluded 0.01.	d, since the lower limit of the confidence in	nterval is greater than
	○ в.	Yes, it can be concluded, since	e the lower limit of the confidence interval	is less than 0.01.
	○ c.	Yes, it can be concluded, since	e the upper limit of the confidence interva	ll is less than 0.01.
	○ <b>D.</b>	No, it should not be concluded 0.01.	t, since the upper limit of the confidence is	nterval is greater than
	1: Sta	andard Normal Cumulative Pr	robabilities (Page 1)	

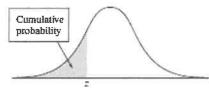


Cumulative probability for z is the area under the standard normal curve to the list of z

2	.00
5.0	.000000287
-4.5	.00000340
-4.0	.0000317
-3.5	.000233

z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
-34	.0003	£0803.	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0002
-3.3	.8005	.0005	.0003	.0004	HXID	.0004	.0004	.0004	.0004	.0003
-3.2	.0007	.0007	.0006	.9006	.0006	.0006	.0006	.0005	.0005	.0005
-3.1	.0010	.0009	.0009	.OXID9	.0098	.0008	.0008	.0008	.0007	.0007
-3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010	.0010
-2.9	.0019	8100.	.0018	.0017	.0016	.0016	.0015	.0015	.0014	.9014
-2.8	.0026	.0025	.0024	.0023	.0023	.6022	.0021	.0021	.0020	.0019
-2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	.0026
-26	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	J0036
-2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
-2.4	.0082	0800.	.0078	.0075	.0073	,0071	.0069	.0068	.0066	.0064
-23	.0107	.0104	.0102	0099	.0096	.0094	.0091	.0089	.0087	.0084
-2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.0110
-2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
-2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
-1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233
-1.8	.0359	.0351	.0344	.0336	43329	.0322	.0314	.0307	.0301	.0294
-1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367
-1.6	.0548	.0537	£1526	.0516	.0505	.0495	.0485	.0475	.0465	.0455
-1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559
-1.4	0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.0681
-1.3	0968	.0951	.0934	.0918	10901	.0985	.0869	.0853	.0838	.0823
-12	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	1003	.0985
-1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
-1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
-0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
-0.8	.2119	.2090	.2061	.2033	.2045	.1977	.1949	.1922	.1894	.1867
-0.7	.2420	.2389	.2358	2327	.2296	2266	.2236	.2206	.2177	2148
-0.6	.2743	.2709	.2676	2643	.2611	2578	.2546	.2514	.2483	2451
-0.5	.3085	.3050	.3015	.2981	.2946	2912	.2877	.2843	2810	.2776
-0.4	.3446	3409	.3372	3336	.3300	3264	3228	.3192	3156	3121
-0.3	.3821	3783	.3745	3707	3669	3632	3594	3557	3520	.3483
-0.2	.4207	.4168	.4129	.4090	4052	.4013	.3974	3936	3897	3859
-0.1	.4602	.4562	A522	.4483	.4443	.4484	.4364	4325	4286	.4247
-0.0	5000	.4960	.4920	4880	.4840	.4801	4761	.4721	A681	.4641
Z	.80	.01	.02	.03	.04	.05	.06	.07	.08	.09
		.4.								

2: Standard Normal Cumulative Probabilities (Page 2)



**.00** 

.9999683

.9999966

.999999713

3.5 4.0

4.5

5.0

Cumulative probability for z is the area under the standard normal curve to the left of z

z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.5000	.5040	.5080	.5120	5160	.5199	.5239	.5279	5319	5359
0,1	.5398	.5438	5478	.5517	5557	.5596	5636	.5675	5714	.5753
0.2	.5793	5832	5871	.5910	.5948	.5987	.6026	.6064	.6103	.6141
0.3	.6179	.6217	.6255	.6293	.6331	.6368	.6406	.6443	.6480	6517
0.4	.6554	.6591	.6628	.6664	.6700	.6736	.6772	.6803	.6844	.6879
0.5	.6915	.6950	.6985	.7019	.7054	.7088	.7123	.7157	.7190	.7224
0.6	.7257	.7291	.7324	.7357	7389	.7422	.7454	.7486	.7517	.7549
0.7	.7590	.7611	.7642	.7673	.7704	.7734	.7764	7794	.7823	.7852
0.8	.7881	.7910	.7939	7967	.7995	.8023	8051	.8078	.8106	.8133
0.9	.8159	.8186	.8212	.8238	.8264	.8289	8315	.8340	.8365	.8289
1.0	.8413	.8438	.8461	,84%5	.8508	.8531	.8554	2577	.8599	.8621
1.1	.8643	.8665	8686	.8708	.8729	.8749	.8770	.8790	.8310	.8830
12	.8849	.8869	8888.	.8907	.8925	8944	.8962	.8980	8997	.9015
1.3	.9032	.9049	.9066	.9002	.9099	.9115	.9131	.9147	.9162	.9177
1.4	.9192	.9207	.9222	9236	.9251	.9265	.9279	.9292	.9306	.9319
1.5	.9332	.9345	9357	.9370	.9382	.9394	:9406	.9418	.9429	.9441
1.6	.9452	.9463	.9474	.9484	.9495	.9505	9515	,9525	.9535	.9545
1.7	.9554	.9564	.9573	.9582	.9591	9599	.9608	.9616	9625	.9633
1.8	.9641	.9649	.9656	.9664	.9671	.9678	.9686	.9693	.9699	.9706
1.9	.9713	.9719	.9726	.9732	.9738	.9744	.9750	.9756	.9761	9767
2.0	.9772	.9778	.9783	.9788	.9793	.9798	.9803	.9808	.9812	.9817
2.1	.9821	.9826	.9830	.9834	.9838	.9842	.9846	.9850	.9854	.9857
2.2	.9861	.9864	.9868	.9871	9875	.9878	9881	.9884	.9887	.9890
2.3	.9893	.9896	.9898	.9901	9904	.9906	0900	.9911	.9913	.9916
2.4	.9918	.9920	.9922	.9925	.9927	.9929	.9931	.9932	.9934	.9936
2.5	.9938	.9940	.9941	.9943	.9945	9946	.9948	.9949	.9951	.9952
2.6	.9953	.9955	.9956	.9957	.9959	.9960	.9961	.9962	.9963	.9964
2.7	.9965	.9966	.9967	.9968	.9969	9970	.997t	.9972	.9973	.9974
2.8	.9974	.9975	.9976	.9977	.9977	.9978	.9979	.9979	.9980	.9981
2.9	.9981	.9982	.9982	.9983	.9984	9984	.9985	.9985	.9986	.9986
1.0	.9987	.9987	.9987	.9988	.9988	.9989	.9989	.9989	.9990	.9990
3.t	.9990	.9991	19991	.9991	.9992	,9992	.9992	.9992	.9993	.9993
3.2	.0993	.9993	.9994	.9994	.9994	.9994	.9994	.9995	.9995	.9995
3.3	.9995	.9995	.9995	.9996	.9996	.9996	.9996	.9996	.9996	.9997
3.4	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9997	.9997	,9998
z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09

## Section 4.2 "Good and Poor Ways to Sample" Assignment

You will look for 1 example in real-life data where one of the three types of bias has occurred in sample surveys.

- Last names A-I will find an example when sampling bias has occurred.
- Last names J-Q will find an example when nonresponse bias has occurred.
- Last names R-Z will find an example when response bias has occurred.

You cannot use any of the examples discussed in the book or in class.

A handout of your findings must include:

The bias you were assigned, explained in your own words.

An explanation of the statistic in your own words. (Do not plagiarize.)

Answer the following questions:

How could they have corrected the statistical procedure?

If they had corrected the statistical procedure, what do you think the results would have been and why?

A copy of all the original sources from where you obtained your data.

You will present your findings to the class. (Max 5 minutes per student) At least one sheet as a visual aide is required.

You must come by my office during my office hours either on xxxxxxx to give me what you plan on presenting in class.

I will use the following rubric to grade you:

- Assignment requirements (50 pts)
  - o Followed directions and answered all questions
- Organization (30 pts)
- Vocal delivery (20 pts)