MATH 1213 Introduction to Statistics
2019 – 2020
4 Credit Hours

Instructor: Mr. Andrew Lundbohm
Phone: 218 463 6332
Email: Andy_lundbohm@roseauschool.org

Required Text and Material

Title:	Elementary Statistics
Author:	Larson
Edition:	6e
Year:	2015
ISBN:	9780321911216
Publisher:	Pearson

Ti – 83 or higher calculator

Course Description and Course Purpose
http://www.minnesota.edu/?id=658&action=detail&subject=MATH&number=1213

Meets MnTC Goal Areas 2 and 4. Topics include data summary, frequency distributions, plots, graphs, measures of central tendency, variation, probabilities, probability distributions and confidence intervals. Hypothesis testing of means, proportions and variances will be conducted using the z-test, t-test, chi-square-test, f-test and ANOVA. Optional topics may include nonparametric statistics, sampling and simulation.

Prerequisites
MATH 1118 PreCalculus

Course Competencies
Upon completion of this course, the student should be able to:
1. Demonstrate knowledge of statistical terms and concepts
2. Organize and represent data using frequency distributions
3. Organize and represent data using graphs
4. Summarize data using measures of central tendency
5. Summarize data using measures of variation and position
6. Find probability of an event using probability properties
7. Find probability of an event using counting techniques
8. Analyze the characteristics of discrete probability distributions including binomial
9. Analyze the characteristics of a normal distribution, including the central limit theorem
10. Identify the confidence interval for mean, proportion, variance, and standard deviation.
11. Demonstrate the process of hypothesis testing for specific values of mean, proportion, variance, and standard deviation.
12. Test the difference between two means, two variances, and two proportions
13. Perform a linear correlation and regression analysis
14. Perform chi-square test for goodness of fit, independence and homogeneity of proportions
15. Perform a one way analysis of variance

Couse Schedule and Assignments
This course will meet every class day at the normally scheduled class time.
All of the assignments and activities will be on the class' Moodle site.

Grading Policies
Grades in this class will be based on points earned on tests, quizzes, daily work, and other projects we may do in class. Tests will account for the majority of your grade, while quizzes, projects and homework will account for the rest. Grade percentages will be as follows:

90-100%	A
80-90%	B
70-80%	C
60-70%	D
< 60%	F

Late Assignments
All late work must be completed and submitted within one week of submission date for partial credit. Work submitted after the one week grace period will not count for any credit. Accommodations will be made for extenuating circumstances. See me if you have any questions.

Accommodations for Students with Disabilities
Roseau and MState are committed to providing equal access to education for all students. Students who have a disability or believe they may have a disability are invited to contatct the

Disability Services office as soon as possible to determine eligibility and/or submit accommodation requests.

For questions or to request accommodations, contact Jon Kragness via email at jon.kragness@minnesota.edu , Phone 218 736 1595(711 for Relay service). For additional information, visit the M State Disability Services website at http://www.minnesota.edu/?id=378

If you are having any problems getting connected with Disability Services, please do not hesitate to contact Megan Adamczyk at megan.adamczyk@minnesota.edu.

Academic Integrity and Plagiarism

Plagiarism and cheating on exams, assignments, projects, etc., are antithetical to academic integrity and will not be tolerated. Furthermore, not only is plagiarism simply dishonest, it is illegal in the sense that you are stealing another person's intellectual property. Therefore, plagiarism and other forms of cheating are serious offenses, not only to academia in general, but to your own education as well. Students can fail this course if caught plagiarizing or cheating on course work and/or exams. All material which is derived from other sources (including paraphrased statements, ideas, and direct quotations) must be cited, with in the text of the paper, and/or using an accepted form of footnotes, endnotes, or parenthetical citations as required.

Examples of Academic Dishonesty:

Cheating - Using or attempting to use unauthorized materials for one's own academic benefit.

Plagiarism – Intentionally or unintentionally presenting as one's own words the ideas, words, or information of another without citing the reference, using either Modern Language Association (MLA), American Psychological Association (APA), or other guidelines as determined by your instructor.

Reusing an assignment – Using an assignment previously submitted to another instructor without prior approval from both instructors.

Fabrication/Falsification – Inventing or knowingly altering information or research.

Facilitating academic misconduct – Assisting another in committing actions considered academically dishonest.

Be forewarned that I reserve the right to turn any case of academic dishonesty (cheating on an exam or plagiarism) over to the Academic Dean for appropriate sanctions. If you are not familiar with the exact definition and/or everything that constitutes plagiarism, it is your responsibility to seek out this information well in advance of completing a course assignment or exam.

Student consequences for academic dishonesty in this course will range from a failing grade for an assignment to a failing grade for the course.

M State Policies and Procedures

Understanding the College's policies and procedures will help contribute to your success as a student, and it is something we expect of you. You may find the Student Handbook at www.minnesota.edu/handbook.