Elementary Statistical Methods
Syllabus
North Lake College

Instructor Information
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Division Office and Phone: P330, 972-273-3500

Course Information
Course Title: Elementary Statistics
Course Number: Math 1342
Section Number: 78202
Semester/Year: Second 8 WKS (Fall 2019)
Credit Hours: 3
Class Meeting Time/Location: MW 9:30 am – 12:20 pm C208
Certification Date: October 28 (2nd semester Fall 2019)
Last Day to Withdraw: November 27 (2nd semester Fall 2019)

Course Prerequisites
College level ready in Mathematics at the non-algebra or algebra levels.

Course 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.

Student Learning Outcomes
Upon successful completion of this course, students will:
1. Explain the use of data collection and statistics as tools to reach reasonable conclusions.
2. Recognize, examine and interpret the basic principles of describing and presenting data.
3. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics. (Empirical and Quantitative)
4. Explain the role of probability in statistics.
5. Examine, analyze and compare various sampling distributions for both discrete and continuous random variables.
6. Describe and compute confidence intervals.
7. Solve linear regression and correlation problems. (Communication)
8. Perform hypothesis testing using statistical methods (Critical Thinking)

Texas Core Objectives
The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. Critical Thinking Skills - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. Communication Skills - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. Empirical and Quantitative Skills - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. Personal Responsibility - to include the ability to connect choices, actions, and consequences to ethical decision-making
6. Social Responsibility - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Required Course Materials:
The Textbook for this course is: A Brief Version Elementary Statistics, 8th Edition, by Bluman (Formulas and tables will be provided by each test).

Web Access to ConnectMath: McGraw-Hill's ConnectMath is a complete online
homework system for mathematics and statistics with a powerful student assessment
diagnostic tool. You can purchase it from the NLC bookstore. This software includes the
textbook. Therefore if you are ok using an ebook there is no need to buy the textbook.

Note: A student of this institution is not under any obligation to purchase a textbook from
a university-affiliated bookstore. The same textbook may also be available from an
independent retailer, including an online retailer.

• The Textbook for this course is: A Brief Version Elementary Statistics, 8th
  Edition, by Bluman (Formulas and tables will be provided by each test).
• You will no longer purchase a textbook package from the bookstore. You will
  only purchase an access code where you will have access to the e-text and other
  supplemental materials.
• Title: Elem Statistics: Brief (Connect ALEKS Access Card 52 wks)
• ISBN: 9781260387001
• The access code must be purchased from the North Lake College bookstore.
  Codes that are ordered from an independent seller may not work.
• NOTE: A student of this institution is not under any obligation to purchase
  course materials from a university-affiliated bookstore. The same hard back
  copy of the e-text may be available for purchase from an independent retailer if
  this is your preference.

Graded Work
The tables below provide a summary of the graded work in this course and an
explanation of how your final course grade will be calculated.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Unit one test Ch1-Ch3:</td>
<td>17.5%</td>
</tr>
<tr>
<td>Unit two test Ch4-Ch5:</td>
<td>17.5%</td>
</tr>
<tr>
<td>Unit three test Ch6-Ch7:</td>
<td>17.5%</td>
</tr>
<tr>
<td>Unit four test Ch8 &amp; Ch10:</td>
<td>17.5%</td>
</tr>
<tr>
<td>Quizzes, Attendance &amp; Class Participation:</td>
<td>15%</td>
</tr>
<tr>
<td>Homework &amp; SLO’s:</td>
<td>15%</td>
</tr>
</tbody>
</table>

Grading Scale
Your course grade will be determined by the final grade average based on the following:
A = 91 – 100  B = 81 – 90  C = 71 – 80  D = 65 – 70  F = 0 – 64
Testing

- There are four (4) unit tests. Tests will be taken in the Testing Center. To take a test in the Testing Center you will need to supply a photo ID, your student ID number, your instructor's name and the course number and section.
- The instructor reserves the right to make test schedule changes.
- If you are unable to take a test at the scheduled time, please make prior arrangements with the instructor, give a valid reason which is supported with a documentation. You may then take the test in the Testing Center, on a different date.

Make-up Tests:

- NO make-up test will be given to those students who missed a test without valid reasons and cannot provide documentation to support a claim.

Calculators:

You will be allowed to use calculators on all tests. Graphing calculators (such as the TI-83 or TI-84 Plus) or a basic calculator.

Quizzes

- Short quiz will be given at the beginning of each meeting. This will measure your understanding of the previous lesson and a good practice for unit tests.
- No make up quiz will be given if the student is absent or late for any reason (excused or unexcused). But to account for any emergency situations, I will drop the three lowest quiz grades at the end of the semester.

Homework

- Homework is the most important learning tool in a course. The classroom environment is more favorable for learning when the student has studied the material in the text, has tried to work the problems, and uses the classroom to get supplementary information and assistance that is not available in the text. Each homework assignment is anticipated to require approximately 2 hours in addition to 3 hour of content review for a total of 5 hours.
- Complete the homework by the due date. Homework must be completed before the unit written test is taken.
- Access to homework will be closed after due date.
- Note: All on-line homework problems can be reworked until you get them all correct. As long as you do this before the due date, you could make a 100 on all of your assignments.
Absences / Tardies

- **Attendance is necessary to pass this class.** Roll will be taken every class period.
- Attend the entire class. Do not arrive late or leave early. If you miss half of the class, I will record an absence.
- If you miss class, it is your responsibility to consult the course calendar for any missed material.
- If you miss class time for any reason (arriving late, leaving early, or being absent), it is YOUR RESPONSIBILITY to learn the material.
- Tardiness is strongly discouraged as it is disruptive to the class and to the students who are on time. However, It is better to come late than not at all as long as it is not a habit. If you anticipate a particular problem, please discuss it with me before or after class.

Classroom Demeanor

- Distractive talking or any disorderly conduct is prohibited. Please be courteous of others. A warning will be given for behavior an instructor considers disruptive and if the warning is not heeded, the student will be asked to leave. See Student Code of Conduct for more details.
- Be respectful and courteous. Treat others the way you wish to be treated.
- Don’t talk while I’m teaching. If you have any questions regarding our lesson, call my attention and ask me. Do not ask or discuss it with your seatmate while I am teaching.

Cell Phone Use

- **No Cell Phone Use in Class**-or Class Participation Points will be taken off.
- The use of cell phones or other similar devices is prohibited during class time. You are expected to turn OFF all such devices BEFORE entering the classroom. You may be asked to leave class if your cell phone causes you or others to be distracted in class; i.e. contact calls or texting.

STEM Center – **Free Tutoring:**
The STEM Center, located in L137 and L139 provides assistance and resources free to students enrolled in mathematics and developmental mathematics classes at North Lake College.
This is a great place to bring a study group, study quietly, get help with math classes, and use the center’s various resources.
Services offered:

- Tutorial services in all math courses taught at North Lake College
- Computers for use by students enrolled in courses that have an Internet component such as homework systems (i.e., MyLabsPlus, ConnectMath)
- Graphing calculators for use in the center
- Textbooks for use in the center
- A quiet area to study (Just ask one of the tutors)
- Opportunity for students to make up class absences
- Whiteboards space for study groups
- Content workshops covering how to use graphing calculators, course topics, review sessions, and study skills

Contact the STEM Center Manager (Math)

Hours of Operation
Monday – Thursday: 9 a.m. – 6 p.m.
Friday & Saturday: 9 a.m. – 2 p.m.
Manager: Camrunn Beck, Room L135, camrunn.beck@dcccd.edu

Financial Aid Certification of Attendance

To be certified as attending, a student must complete all of first 6 days of assignments earning at least a score of 70%.

What is Service Learning?
Service Learning (SL) is a program in which you will learn and develop through thoughtfully organized service experiences by participating in meeting real community needs. The program combines academic instruction along with active community service that utilizes both critical and reflective thinking skills that assist you in examining your civic responsibilities in the world in which you live.

We have several service opportunities for our math students.

- Host Review Sessions on Campus for our DMAT Students (May not be an option. Check with coordinator.)
- Math Tutor at any of our Local Schools
- Create your own program. It must involve mathematics!

Details about these positions and others can be found in the eCampus Service Learning Community.
For questions or concerns, contact the Service Learning Coordinator, Katherine Villarreal, at kvillarreal@dcccd.edu.

Students who enroll in Service Learning, may replace a low test grade with the average of all the tests grades.

PENALTY for Academic Dishonesty

*Please see [Cheating, Plagiarism and Collusion](#) under Institutional Policies*

Academic dishonesty may result in the following sanctions, including, but not limited to:

1. A grade of zero or a lowered grade on the assignment or course.
2. A reprimand.
3. Suspension from the college.

Cheating is a serious crime in higher education and can have a grave effect on your academic reputation and your career after graduation. By not taking the time to learn material or create your own work, you are depriving yourself of valuable knowledge and putting yourself at risk of facing severe punishment. Enrolling in college means you’re investing your time, money, and effort toward a more successful future – don’t let all that go to waste by making the mistake of being academically dishonest!

Some examples of what is considered to be cheating:

- Copying from another student’s homework, classwork, or exam
- Allowing another student to copy your homework, classwork, or exam
- Using prohibited sources on a take home exam
- Conversing with another student while taking exam
- Not reporting other students who you know are cheating (eCollege Finder)

**Drop Policy**

If you are unable to complete this course, you must officially withdraw before or on **November 27, 2019**. Withdrawing is a formal procedure which you must initiate; your instructor cannot do it for you. See link within Institutional Policies.

**STOP BEFORE YOU DROP - Do NOT drop until you speak with your instructor.**

**Counseling Services (A311)**

Counseling services for personal issues are provided to all students currently enrolled at North Lake College. These services are provided by licensed professionals who are bound by confidentiality (within ethical parameters) at no charge. With the assistance of
a counselor, students are able to identify, understand, resolve issues and develop appropriate skills. To make an appointment call 972-273-3333 or visit A311.

**Institutional Policies**

Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more.

[North Lake Institutional Policies](http://www.northlakecollege.edu/syllabipolicies)

This course syllabus is intended as a set of guidelines for Statistics. Both North Lake College and your instructor reserve the right to make modifications in content, schedule, and requirements as necessary to promote the best education possible within prevailing conditions affecting this course.