Elementary Statistical Methods LEC
Syllabus
North Lake College

Instructor Information
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Math & Science Division Office and Phone number: P330, 972-273-3500

Course Information
Course Title: Elementary Statistics
Course Number: Math 1342
Section Number: 70701
Semester/Year: Spring 2020
Credit Hours: 3
Class Meeting Time/Location: Online / INET
Certification Date: N/A
Last Day to Withdraw: 05/04/20

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. The Data CD is optional). You may use one of the followings

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.

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.

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.

Summary of Graded Work

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit I Test</td>
<td>20%</td>
</tr>
<tr>
<td>Unit II Test</td>
<td>20%</td>
</tr>
<tr>
<td>Unit III Test</td>
<td>20%</td>
</tr>
<tr>
<td>Unit IV Test</td>
<td>20%</td>
</tr>
<tr>
<td>SLO Quizzes</td>
<td>5%</td>
</tr>
<tr>
<td>Homework / Videos</td>
<td>15%</td>
</tr>
</tbody>
</table>

TOTAL: 100%

Final Grade

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
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</thead>
<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
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Homework
Homework and SLO quizzes must be completed on Connect Math.

Testing
There are four proctored tests. Tests will be taken online in eCampus, utilizing the Respondus Lockdown Browser, according to the class calendar. 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, L240, on or before the regularly scheduled test day. The final test may be taken in class if normal class resume after 04/30/20

**Re-Tests:** There are no retests

**Homework:** Homework is the most important learning tool in the course because it reinforces instruction and it provides an immediate and personal measure of your competence in the course. Homework must be completed on Connect Math. Students are required to purchase the access code to Connect Math

**Videos:**
You are expected to watch all instructional videos so that you may increase your chances for a successful semester. There are two types of videos; (1) videos within the connect math learning management system and (2) videos that I will make and post in edPuzzle. You will need to create a free edpuzzle account to watch the instructional videos that I will create.

**STEM/Math Center**
The STEM Center (SC) located in L-137 and L-139 provides assistance and resources free to students enrolled in mathematics and developmental mathematics classes at North Lake College. The SC is a great place to bring a study group, study quietly, get help with math classes, and use the center’s various resources.
Hours: Monday – Thursday 9am – 8pm; Friday – Saturday 9am – 2pm
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%.

**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 much officially withdraw before or on 05/04/20. Withdrawing is a formal procedure which you must initiate; your instructor cannot do it for you. See link within Institutional Policies p. 6

**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.*