MTH 222-650 (3364)
Elementary Statistics
Fall 2017
MW 10 – 11:50 a.m.

Instructor Information:
Name: Mrs. Natalia Casper
Associate Professor of Mathematics

Office: T327 (Grayslake Campus – Third Floor of T-wing)

Phone: 847-543-2801

Email: ncasper@clcillinois.edu (I check email daily except on Saturdays).

Send emails from your student CLC email account. Please inform me which class and section you are in.

Office Hours: T327 (Grayslake Campus Third Floor of T-wing)
Monday & Wednesday: 8:30 a.m. – 10 a.m.; 12:30 p.m. – 3 p.m.
Tuesday & Thursday: 8 – 8:30 a.m.; 2:30 p.m. – 3 p.m.

Materials Needed:

Text: Open Sources textbook (http://dept.clcillinois.edu/mth/oer/IntroductoryStatistics.pdf)

OPTIONAL: Purchasing the black/white pdf of the text from the bookstore ($10)

Calculator: A Graphing Calculator is required. The TI-84 (or TI-83) is an appropriate calculator for this math course. Inappropriate uses of your calculator include storage of formulas, examples, procedures, tables, etc. Using your calculator in these ways is considered cheating and will be dealt with accordingly. If you would like to use a calculator other than a TI-84 (or TI-83) or if you have questions about what is permissible, then please see me

Course Description: http://www.clcillinois.edu/coursecatalog?subject=mth

COURSE COMPETENCIES/OBJECTIVES:
Upon completion of the course, a student should be able to:

1. Evaluate measures of central tendency, measures of dispersion, measures of position, probability distributions, confidence intervals, hypothesis tests, and correlations with Excel spreadsheets and graphing calculators.

2. Assess sampling methods and graphs.

3. Differentiate between descriptive and inferential statistics.

4. Calculate and interpret the linear correlation coefficient.

5. Analyze and apply the basic concepts of probability.
6. Describe a probability distribution and calculate probability values using postulates, rules of probability and various probability distribution tables.

7. Explain Chebychev’s theorem, Empirical Rule, and the central limit theorem with respect to mean and proportions.

8. Assess one-sample and multi-sample hypotheses about population parameters by using appropriate distributions including the F-distribution.

9. Construct confidence intervals about the mean, standard deviation, and proportion.

**Grading Policy:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>4 Exams</td>
<td>450</td>
</tr>
<tr>
<td>Homework</td>
<td>225</td>
</tr>
<tr>
<td>Excel Assignments</td>
<td>180</td>
</tr>
<tr>
<td>Final Project</td>
<td>145</td>
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</tbody>
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1000

900 to 1000 A
800 to 899 B
680 to 799 C
620 to 679 D
0 to 619 F

**Withdrawing from the Class: There are 3 types of Withdrawals.**

It is your responsibility to withdraw from a class that you no longer wish to attend. Your transcript and the grade for the course may vary depending on the time at which you withdraw or request to withdraw from a course. The table below briefly outlines the actions you must take and the potential outcomes if you decide to withdraw from this course.

<table>
<thead>
<tr>
<th>If you wish to withdraw:</th>
<th>You must:</th>
<th>What you will see on your transcript:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to the Refund Date 9/6</td>
<td>Withdraw from course via MyStudentCenter</td>
<td>transcript will not reflect enrollment in the course</td>
</tr>
<tr>
<td>Between the Refund Date &amp; the last day to withdraw 9/6 to 11/15</td>
<td>Withdraw from course via MyStudentCenter</td>
<td>a grade of &quot;W&quot; will be recorded on your transcript</td>
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</table>
| Any time after 11/15 but before completion of the final exam or assignment | Request a withdrawal from your instructor and follow their directions | If you are passing the course **and** obtain your instructor’s approval: a grade of "W" will be recorded on your transcript  
If you are failing the course: a grade of "FW" will be recorded on your transcript (this has the same impact on your GPA as a grade of “F”) |
**Exams:** Each exam will cover 3 to 4 chapters. Exams are taken in class. There are no make-up exams unless an extraneous circumstance comes about. Make up exams have to be arranged before the exam date. I am not obligated to give a make-up exam. Exams include vocabulary, short essay, and problems based on homework and notes. Exams are paper and pencil. Students will be allowed a 4 by 6 notecard of notes to be turned in with the exam.

**Homework:** Homework are mini “tests” on Blackboard. You can save them until you click submit. They are 15 point multiple choice questions. You have 3 attempts to improve your grade. The questions are randomized which means that each attempt you will get a set of new questions in a different order. The highest grade of the three attempts will be posted in the gradebook.

**Excel Assignments** are different from Homework. These assignments have specific instructions. You will be graded on using Excel functions. For example if you are finding the average of 15 numbers, you are expected to use the Excel function to find the average instead of using your calculator and just typing it in. These projects are to be done on your own. You do not need previous knowledge of Excel. You will be turning these projects via blackboard (like attaching a file to email).

**Final Project:** The project highlights cumulative topics that will be on Excel. There were be detailed instructions for the final project.

**From the Mathematics Department: Student Success Behaviors to Avoid Repeating this Course**

The CLC Math Department is interested in student success. Therefore we urge students to exhibit success behaviors including:

* Attend every class and be there on time
* Keep up with daily homework and assignments
* Do quality work on all assignments and hand them in on time
* Be an engaged and productive member of your class
* Spend a **minimum** of two hours per week studying outside of class for every hour spent in class
* Work to understand the concepts in mathematics beyond step-by-step procedures
* Seek help when needed by taking advantage of the many support services available at the college.

**Please note** that repeating courses negatively impacts a student's academic standing, financial aid, and ability to transfer. Repeating courses also impedes degree progress and may lengthen your completion timeline. **Plan on succeeding in your mathematics class the first time you take it** by exhibiting success behaviors and striving for an "A" level of understanding.
**CLC Math Center:** The secret of success is knowing when to seek help. If you are enrolled in a math or math-related course and need assistance, the Math Center provides tutoring by trained professionals as well as by fellow students. Please visit the CLC Math Center(s) for support. Come prepared for tutoring by having specific questions on problems that you have tried and on which you have had trouble. While Math Center tutors are happy to help you with homework they cannot do it for you. The Math Center does not provide help on take home exams and assignments or extra credit assignments.

**Math Center Hours**

**Grayslake Campus - L119**  (847) 543-2449

Monday-Thursday 8:00 AM-8:00 PM

Friday 8:00 AM – 4:30 PM

Saturday 10:00 AM – 2 PM

**Lakeshore Campus - N213**  (847) 543-2120

Monday-Thursday 9:00 AM – 8:00 PM

Friday 10:00 AM – 2:00 PM

Saturday 9:00 AM – 12:00 PM

**Southlake Campus - V212**  (847) 543-6542

Monday-Thursday 9:00 AM-7:00 PM

**Math Computer Lab (L138)** is an open computer lab designed to help MATH students who are using MyMathLab, Blackboard Homework, and Excel Homework. The lab is run by a tutor that has a degree in Mathematics. The lab is an additional resource for Math students. The lab is restricted to 20 hours a week. If these hours do not meet your needs, the Math Center located in the LRC is still available.

**Hours for computer lab:**

Monday – Thursday 9 a.m. to 3 p.m.

**From the CLC Counseling Office**

The College of Lake County Counseling Office offers professional counseling for students who are in crisis or are having personal problems which as a result may affect their academic and career goals. The services of professional counselors are available at three locations on an appointment or drop-in basis: Grayslake Campus, A124, (847) 543-2060; Lakeshore Campus in Waukegan, N211, (847) 543-2186; Southlake Center in Vernon Hills, V130, (847) 543-6501

In addition, below is the link to the Counseling Services Referral Guide which we encourage you to review before the start of the semester. The referral guide is located on the CLC Intranet under Faculty Resources.

FERPA Statement – Although students may forward emails from their CLC email accounts to other email accounts, in order to be in compliance with the Family Educational Rights and Privacy Act (FERPA) and to guarantee the student’s privacy, CLC personnel will not communicate with the student via email unless the official college email address is used.

STATEMENT FROM THE OFFICE FOR STUDENTS WITH DISABILITIES –

If you have a documented disability that requires academic accommodations, please discuss this with me as soon as possible and contact the Office for Students with Disabilities in room L112 to arrange for all necessary services.

To request academic accommodations due to a disability, please contact the Office for Students with Disabilities (847) 543-2474 in Room L112. If you have an Instructor Notification Form, please make an appointment with me so we can discuss the accommodations that you might need in this class.

IT IS THE STUDENT’S RESPONSIBILITY TO BE AWARE OF BEHAVIORS THAT CONSTITUTE ACADEMIC DISHONESTY.

http://www.clcillinois.edu/aboutclc/depts/ssd/student-rights-and-responsibilities

Tape Recording Guidelines

The use of tape recording or other recording devices by a College of Lake County student is dependent upon the particular course, program and the permission of the instructor. CLC students acknowledge that their classroom discussions and participation may be recorded. CLC students further acknowledge that any authorized recording of a class or program is for their use only and may not be accessed or utilized by any other individual. Use of any course or program recordings shall be used for educational purposes only and no replication or reproduction of the recording shall be made without the express written consent of the instructor and College of Lake County. Any student determined to have violated this procedure/rule shall be subject to discipline under the College’s Student Rights and Responsibilities Policy and Procedures. Students requesting to record a class pursuant to the Americans with Disabilities Act shall contact the Office for Students with Disabilities at (847) 543-2055.

Title IX Statements

College of Lake County seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault, we encourage you to report this. If you report this to a faculty member, she or he must notify our college's Title IX coordinator about the basic facts of the incident. For more information about your options at College of Lake County, please go to: http://www.clcillinois.edu/student-services/student-behavior/titleixservices

Title IX Responsibilities: College of Lake County faculty are committed to supporting our students and upholding gender equity laws as outlined by Title IX. Therefore, if a student chooses to confide in a member of College of Lake County’s faculty regarding an issue of sexual misconduct, that faculty member is obligated to tell the College’s Title IX Coordinator. The Title IX coordinator, Teresa Aquinaldo can be reached at: 847-543-2288 or com401@clcillinois.edu and will assist the student in connecting with all possible resources both on and off campus.
Commitment to Diversity: College of Lake County is committed to creating and fostering a learning and working environment based on open communication and mutual respect. This is an integral part of the College’s academic mission to enrich our students' educational experiences and prepare them to live in and contribute to a global society. If you encounter sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin, ancestry, sex, sexual orientation, gender identity, or disability please contact Student Development, Karen Hlavin (847-543-2384 or adr016@clcillinois.edu) or the Title IX Coordinator, Teresa Aguinaldo (847-543-2288 or com401@clcillinois.edu).

As a member of College of Lake County’s faculty, I am concerned about the well-being and development of our students, and am available to discuss any concerns. Faculty are legally obligated to share information with the College’s Title IX coordinator in certain situations to help ensure that the student’s safety and welfare are being addressed, consistent with the requirements of the law. These disclosures include but are not limited to reports of sexual assault, relational/domestic violence, and stalking.

Please refer to CLC’s website for contact information and further details about our policy and procedures at http://www.clcillinois.edu/student-services/student-behavior/titleixservices