

**COURSE SYLLABUS
FALL 2010**

COURSE: Elementary Statistics MTH 345-01 11:45 – 12:50pm M W F CH 014

INSTRUCTOR: Dr. Evans Afenya

WEBSITE: <http://www.elmhurst.edu/~mth/evansa/index.html>

OFFICE, PHONE, FAX, & EMAIL: CS 222 617-3572 617-3739 evansa@elmhurst.edu

OFFICE HOURS: 1:00 – 2:00pm M W F By Appointment T R

TEXT: Elementary Statistics, Eleventh Edition. **Author:** Mario F. Triola **Publisher:** Addison-Wesley Publishing Company.

SOFTWARE & HARDWARE: Excel, StatDisk/Minitab, and TI-83.

HOMEWORK, QUIZZES, TESTS, FINAL EXAM, PROJECTS, WRITING ASSIGNMENTS, & PROBLEM-SOLVING SESSIONS: Homework will be collected regularly and spot-checked. Credit will be given for all homework assigned. Working on homework problems together is highly encouraged. Turning homework in late should be avoided at all costs. A penalty will be awarded against late homework. Quizzes (in-class and take-home) will be given every week on material covered. There will be no make-up for quizzes since the two lowest quiz scores will not be considered during the computation of final grades. Tests will be given either on each chapter covered or on a combination of chapters covered. The final exam will be cumulative. Projects (labs) and writing assignments will be done individually on some occasions and in groups on other occasions. There will be at least three projects. There will be weekly problem-solving and tutorial sessions.

MATERIAL TO BE COVERED: Chapters 1 (review), 2-13. There will be at least three lab sessions that will focus on using Excel and/or StatDisk/Minitab in doing statistical work. The TI-83 will be used during classes to perform statistical computations. Whenever possible, we will cover at least one section of the text per period of class contact, unless another class activity prevents this from happening.

GRADING SCHEDULE: Each test will count for 100 points. Homework, quizzes, projects, and writing assignments will count for 200 points. The final exam will count for 200 points.

GRADING SCALE:	90% and above	A
	80% - 89%	B
	70% - 79%	C
	60% - 69%	D
	Below 60%	F

COURSE OBJECTIVES AND REQUIREMENTS: In line with the ideals cherished by Elmhurst College as a place of learning, the overall aim and objective of this course is to broaden and strengthen the analytical, critical thinking, problem solving, and statistical skills of students. You will be exposed to the important and vital role statistics plays in everyday life and in scientific and technological advancement. You would learn how mathematical and statistical techniques such as data gathering and analysis are used in everyday life. The projects would include statistical data collection and analysis and these would aid you in understanding important statistical concepts that are employed in various segments

of industry and society. The class will involve lecture-discussion techniques in which class participation and regular class attendance will be given **very favorable attention**. You will actually be required to drop the entire course after **three** unexplained absences. Its important to note that regular class attendance greatly impacts good class performance. It is advisable to form study groups. This serves as one of the very effective ways of dealing with problems. You should try as much as possible not to fall behind the class since this could create problems for any individual in terms of overall performance in the class. **You will have the option of replacing one in-class test that you perform poorly on with your final exam so there will be no need for make-up tests.** “Poor performance” in this case means earning below the grade of C on a test. Nonetheless, regular make-up tests will only be given when the circumstances permit. One major reason for giving a make-up would be when a student can authentically prove with a medical report that he or she was sick and could not take a test on an appointed day. In any case, giving me a call or sending me an email message prior to being absent will be a very expedient and appropriate thing to do. You are required to read the attached handout on “Strategies for learning math and succeeding in math courses” very carefully since the points raised will help you to perform well in this course. It is advisable to read the handout at least once every week. You are all welcome back to campus. I look forward to working with all of you and wish you all a successful and fruitful academic year.

HOMEWORK PROBLEMS

<u>SECTION</u>	<u>PAGE</u>	<u>HOMEWORK</u>
2.2	52	1, 3, 5, 7, 9, 11, 15, 19
2.3	57	1, 3, 5, 9, 11, 13, 15, 17
2.4	67	1, 3, 7, 11, 15, 19, 21
2.5	73	1, 3, 5, 7, 9
3.2	94	1, 5, 9, 13, 17, 21, 23, 27, 29
3.3	109	1, 3, 5, 9, 11, 15, 17, 19, 23, 25, 29, 33, 35
3.4	126	1, 7, 13, 15, 19, 23, 29
4.2	147	1, 3, 7, 13, 15, 17, 21, 25, 29, 33
4.3	156	1, 5, 11, 15, 19, 21, 27, 33
4.4	167	1, 5, 7, 11, 15, 19, 25, 29
4.5	175	1, 3, 5, 9, 13, 17, 21, 25, 29
4.7	189	1, 5, 9, 13, 17, 21, 25, 29, 33, 35
5.2	214	3, 5, 7, 11, 15, 17, 21, 23, 25, 29
5.3	225	1, 3, 7, 11, 13, 15, 19, 23, 29, 33, 37, 41
5.4	231	1, 3, 7, 11, 15, 19
5.5	238	3, 7, 11, 13, 15
6.2	261	1, 3, 5, 7, 13, 17, 19, 23, 27, 31, 35, 37, 39, 43, 47, 51
6.3	271	3, 5, 7, 9, 11, 15, 19, 23, 25, 29, 33
6.4	285	1, 5, 7, 9, 11, 13, 17
6.5	295	3, 7, 11, 15, 17, 19
6.6	305	1, 3, 7, 11, 15, 19, 23, 27, 31
6.7	315	3, 7, 11, 15
7.2	339	1, 3, 7, 9, 11, 13, 19, 23, 27, 31, 35, 39, 43, 47
7.3	351	1, 3, 7, 9, 15, 17, 19, 23, 27, 31, 35
7.4	365	1, 5, 7, 11, 13, 15, 19, 23, 27
7.5	377	Every other odd (1-25)
8.2	409	1, 3, 7, 11, 15, 17, 21, 25, 29, 33, 37, 41
8.3	420	1, 3, 5, 9, 13, 15, 19, 23, 27, 31, 35

8.4	429	1, 3, 7, 9, 11, 15, 17, 19, 21
8.5	439	1, 5, 9, 11, 13, 17, 21, 27, 31
8.6	447	1, 5, 9, 13, 17, 19
9.2	468	1, 3, 7, 11, 15, 19, 23, 27, 31, 35
9.3	482	3, 7, 11, 13, 17, 21, 25, 29, 31, 35, 39
9.4	493	3, 7, 11, 15, 19, 23
9.5	502	3, 5, 11, 15, 19
10.2	530	3, 7, 9, 11, 13, 15, 19, 23, 27, 29, 33
10.3	547	Every other odd (1-31)
10.4	557	3, 7, 11, 15, 19, 23
10.5	567	All odds (1-16)
10.6	573	All odds (1-15)
11.2	593	Every other odds (1-23)
11.3	606	Every other odd (1-21)
11.4	615	Every other odd (1-17)
12.2	639	All odds (1-15)
12.3	649	1, 3, 5, 7, 11, 13, 15
13.2	671	1, 5, 9, 13, 17
13.3	678	1, 3, 5, 7, 11
13.4	683	1, 5, 9, 11
13.5	689	3, 7, 9, 11
13.6	697	3, 5, 7, 11, 15, 17
13.7	705	5, 7, 9, 13

EXTRA HELP: The Mathematics Department runs free tutoring sessions for students taking math courses. Please call 630-617-3578 or send an email to rgentile@elmhurst.edu for further details.

NOTES

- 1) The College will make reasonable accommodations for persons with documented disabilities. If you have a disability that may have some impact on your work in this course, please contact Disability Services Provider at 630-617-3753.
- 2) **Academic Integrity Statement:** Students are expected to be familiar with the *Code of Academic Integrity* in the Elmhurst College E-book and with the statement posted at <http://www.elmhurst.edu/~mth/acadint.html>
- 3) Appropriate and necessary changes will be made to this course syllabus with or without prior notice.

FINAL EXAM: WEDNESDAY, DECEMBER 15, 2010 AT 10:30AM - 12:30PM